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## MINUTES OF THE DOD ANNUAL REVIEW OF PHYSICAL SECURITY EQUIPMENT (PSE) PROGRAM

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## DOD ANNUAL REVIEW OF PHYSICAL SECURITY EQUIPMENT (PSE) PROGRAMS

## 1 May 1991

## Building 392 Fort Belvoir, Virginia

The meeting announcement and agenda are provided at Attachment A. A list of attendees is provided at Attachment B.

## I. OPENING REMARKS

The Chairman, Col. David Evans, opened the meeting and thanked the Army for hosting the meeting. He introduced the Department of Energy (DOE) representatives and explained that they had been invited to the meeting to share information, and to identify common areas of interest concerning physical security programs in an attempt to eliminate duplication of effort between DOD and DOE.

The Chairman commented that this meeting marked the end of a year of Physical Security Equipment Action Group (PSEAG) activities, and also served as the beginning of another annual cycle of PSEAG activities. During the past year the emphasis of the PSEAG was on prioritization of programs, funding, and coordination of Service activities. He was pleased with the accomplishments of the past year, especially the work of the two subgroups: the Joint Requirements Working Group (JRWG) and the Security Equipment Integration Working Group (SEIWG). The Chairman commended the Services for their participation and collective accomplishments, and reminded the attendees that the PSEAG had been established during the Vietnam era to obtain adequate physical security equipment (PSE) for units in combat. He stated that since the PSEAG was established, the required type and amount of PSE has been available when and where required. This was evident during Operation Desert Shield/Storm when all requests for PSE were answered in a timely fashion. Col. Evans emphasized that the group's current efforts will ensure that future commanders will have sufficient PSE.

Col. Evans stated that there did not appear to be a need to convene a meeting of the Physical Security Equipment Steering Group (PSESG) this June. The PSESG had offered to support the PSEAG and the Services on any issues that needed to be resolved at the steering group level, but all Services reported they had no issues to present to the Steering Group.

Lastly, Col. Evans stated that he had no indication that there would be changes to the planning figures, but if there were changes, he would provide them to the Services as they became available.

## II. ARMY PSE PROGRAMS

The Army PSEAG representative, Mr. Jack Millett, HQ AMC, introduced LTC Petcu, PM-PSE, who briefed the Army 6.3/6.4 PSE programs. LTC Petcu briefly reviewed the PSE focus last year, and presented the Army's PSE "road map". He stated that the Integrated Commercial Intrusion Detection System I (ICIDS-I) was being fielded to meet the Army's materiel need requirements, although other Services' needs were taken into account in structuring the ICIDS contract. The draft Intrusion Detection System (IDS) Joint Service Operational Requirement (JSOR) is currently being staffed. Several smaller programs, such as the Small Console Equipment Group (SCEG) and the Fixed Installation Exterior Perimeter Sensor System (FIEPSS), have been incorporated into ICIDS-I program. The Commercial Security Interface Device (CSID) was incorporated into the Security Console Equipment Group - J-SIIDS (SCEG-J) program, and a

decision will be made later this year to determine if the J-SIIDS upgrade can be accomplished with materiel change proposals, in lieu of maintaining a separate 6.4 research, development, test and evaluation (RDT&E) program. A J-SIIDS personal computer annunciator (JPCA) is forecast to replace the current J-SIIDS monitor cabinet which currently has no display. This new configuration of J-SIIDS will not have an entry control interface capability.

LTC Petcu reported that the ICIDS-I solicitation closes on 29 May 91. Source selection will begin in June 1991, and a contract award is planned for August 1991. The ICIDS-I contract will be for one year with four option years. If the other Services' needs are not met by the ICIDS-I, then ICIDS-II fielding will be accelerated in an attempt to fully meet the approved JSOR. LTC Petcu also reported that there was a possibility of losing FY91 production dollars for the ICIDS-I. If this happens, the ICIDS-I award will be delayed until FY92 (a minimum of two months slip depending upon the timing of Congressional approval of the FY92 budget).

The Advanced Sensors I, II, and III programs will attempt to upgrade/improve the sensor suites associated with the ICIDS programs. These upgrades/improvements will be accomplished through material changes to ICIDS.

The Mobile Detection Assessment and Response System - Interior (MDARS - I) is a three-phased Non-Developmental Item (NDI) integration program. The initial Phase I capability will be fielded in 1994. The MDARS - Exterior (MDARS-EXT) is a two-phased program, and will transition from the Defense Nuclear Agency (DNA) to the Army in FY92. The MDARS-EXT will integrate a sensor suite with an exterior mobile platform that is being developed by the Joint Program Office for Unmanned Ground Vehicles. Ultimately, the interior and exterior MDARS systems will be integrated into the ICIDS console. This is scheduled to occur by the year 2000.

Col. Evans suggested the Global Positioning System as an effective navigation aid for the MDARS-EXT. He said that the Applied Research Laboratory at the University of Texas was making substantial improvements on other Army positioning systems. LTC Petcu stated that he would have his project leader, Mr. Jerry Edwards, contact LCDR Neil Ramsey, the DNA project point of contact, to investigate the applicability of this system to the MDARS. LTC Petcu also said that the majority of integration work will be completed at the Picatinny Integration Facility (PIF) at Picatinny Arsenal, New Jersey. Currently, the MDARS-I is undergoing technical feasibility tests, and the results will be available in June 1991.

LTC Petcu reported that the only currently active project under the Barrier Applications System (BAS) program was the sticky foam dispensing system. Other BAS projects, such as the Maintenance and Assembly Storage System (MASS) barriers, have been cancelled due to changes in Army operational requirements. Future projects for the BAS and the Lighting Application Systems (LAS) will be presented to the JRWG, as appropriate.

In response to MG Rigby's initiative to consolidate Army PSE research, development, and acquisition (RDA) functions, LTC Petcu said that he expects to assume the RDA functions for the J-SIIDS and Security and Force Protection Enhancement Resources (SAFER) programs in June 1991. LTC Petcu said that the SAFER was a Department of the Army (DA)-directed program, and that 11 systems had already been fielded. The Army combat developer, the U.S. Army Military Police School (USAMPS) has no requirement, however, for the program. Col. Evans reminded the attendees that the Army's Tactical Force Protection program (SAFER) and the Air Force's Dispersal Sensors are separate, but related programs, and that the two Services must coordinate with each other to ensure that there is not a duplication of development efforts.

LTC Petcu presented his funding slides for RDT&E, procurement, and installation. He pointed out that the RDT&E funding matched the DOD funding guidance. He also stated that there was \$200K of FY91 RDT&E dollars that he could not spend as originally intended. The Chairman

said he would work with the Army on its execution. Mr. Doug Cavileer asked what the impact of base closures was having on the ICIDS program and the procurement funding. LTC Petcu confirmed that Ft. McClellan, which is on the list of proposed base closures, is still scheduled as the first installation to receive the ICIDS. Correspondence has been initiated to get a final decision on whether or not to proceed with the planned installation. Col. Evans asked what impact this might have on the Security Operational Test Site (SOTS) at Ft. McClellan. LTC Petcu responded that the plan to install ICIDS equipment at the SOTS has not changed LTC Petcu reported that the Army's obligation rate for the first two funding increments was 86%. The charts used by LTC Petcu are provided at Attachment C.

Mr. Jack Millett, AMCDE-CI, presented the status of the Army's implementation of the 17 management options listed in Appendix C of the DOD Physical Security (PS) Master Plan. Twelve of the items have been completely implemented, and five items have been overcome by events. Col. Evans stated that the Army had satisfactorily addressed all of their items; thus, there was no need to report their status in the future. The charts used by Mr. Millett in his presentation are also provided at Attachment C.

## III. NAVY PSE PROGRAMS

Mr. Targosz, CNO (OP-09N), presented a briefing on the Navy PSE programs. He reported that the current Waterside Security System (WSS) initiative resulted from Congressional and DOD interest in the mid 80s in security at critical naval waterside facilities. The program will provide a security system capable of detecting, classifying, and assessing (above the surface) intruder penetration through water-boundaries, and communicating necessary information to a user friendly command, control and communications display. An evaluation of NDI components was completed at SUBASE Bangor, Washington in July 1986 to establish a baseline for RDT&E. It was determined that additional RDT&E was required in the areas of swimmer detection and the command and control console. Development of an integrated WSS was initiated, and initial testing of the fully integrated prototype WSS was completed in March 1991. An operational evaluation of the system is scheduled for FY92. The system is scheduled to be operational at Bangor in early FY94. A second system will be installed at Kings Bay, GA in 4QFY94. Unforeseen technical difficulties and the need to add a formal operational evaluation have caused the WSS to slip, and have placed additional funding demands on the program. Funds have been transferred from the planned Waterside Advanced Security Program (WASP) to support the WSS. Mr. Targosz also reported that the critical path item for the operational/production WSS is the procurement of the sonar component. A decision on the sonar procurement will be made by an Acquisition Review Board in 1QFY92. Mr. Cavileer asked who the Navy decision authority would be for the sonar. Mr. Targosz responded that it would be Naval Sea Systems Command (NAVSEA) (SEA-O6). Mr. Targosz added that DNA is working on an advanced swimmer detection sonar that would provide greater capabilities than the modified obstacle avoidance sonar that will be installed at SUBASE Bangor.

The WASP is a preplanned product improvement (P³I) program to the WSS. The WASP is planned to be a transportable system, and will provide significant improvements over the WSS. Mr. Targosz stated that a Tentative Operational Requirement (TOR) was approved in July 1990, and a Development Options Paper is being prepared by the NAVSEA. He emphasized that any additional program delay in the WSS would cause a similar delay in the start of the WASP. Most of the Navy sponsored DNA projects will be part of the WASP when they transfer to the Navy. These include the Advanced Sonar and the Light Weight Water Barrier projects. The WASP is projected to start in FY92. A point paper on the WASP is included at Attachment D.

The Secure Structures Ashore (SSA) program is aimed at enhancing the hardening of structural components of facilities against various attacks. The program is considered a Non ACAT program since there is no follow-on procurement. The deliverables are drawings,

standards, and specifications. The SSA Program will terminate at the end of FY92. Col. Evans emphasized that the DOD physical security community has to continue working on specification development to assure that DOD structures will meet future technical threats. Mr. Cavileer said that the new DOD 5200.8R, Chapter 2, Military Construction, includes requirements on protective design, and the Services will be required to ensure that all new construction meets these requirements. Mr. Millett said that the Army was coordinating with the Navy on facilities hardening issues, and other related work to avoid duplication of effort.

The Shipboard Physical Security (SPS) program addresses the PSE used to protect ship facilities against unauthorized intrusion. Several of the products from the completed Shipboard Nuclear Weapons Security (SNWS) RDT&E program (i.e., the magazine security system and the protective voice portable communications system) have been incorporated into the SPS program. A revised Operational Requirement (OR) for the SPS is currently being drafted. The lack of an approved OR and shrinking resources has resulted in waning support for follow-on funding for procurement and installation by the platform sponsors. The difficulty in developing a requirements document that is acceptable to all resource sponsors may necessitate the development of three separate requirements documents, one each for aircraft carriers, surface ships, and submarines. Col. Evans added that any interface requirements between SPS and the WSS, Air Force Base and Installation Security System (BISS), or the ICIDS also need to be addressed.

Mr. Targosz reported that the Navy is continuing to monitor the progress of academia, the private sector, and other federal agencies in the area of Portable Explosives Detector (PED) equipment. This strategy is the result of a JRWG decision in mid-1989 that PED technology had not matured sufficiently to meet the JSOR. A SEIWG representative is a member of the Contraband Detection Subcommittee of the Interagency Advisory Committee for Security Equipment. The SEIWG will keep the PSEAG informed of technological progress. No DOD PSE RDT&E funds are currently being expended on PED work. Col. Corso stated that the Air Force is interested in receiving a briefing from the Navy on the existing state-of-the-art of PEDs. Col. Evans requested that the Navy sponsor a briefing by the Naval Explosive Ordnance Disposal (EOD) Technical Center to the JRWG to inform the members of the capabilities of current state-of-the-art PEDs.

Mr. Targosz stated that Version 2.0 of the DOD PSE Prioritization Program is now available, and is more user friendly than earlier versions of the software. The prioritization algorithm provides a method for rank ordering DOD RDT&E PSE programs. Additional upgrades to the software are being made, and Version 2.1 will be available in Fall 1991. No further changes are planned beyond Version 2.1. Mr. Targosz showed a chart depicting a rank ordering of the Navy's PSE programs using the prioritization algorithm. Col. Evans emphasized that the members of the JRWG must continue to exercise judgement when comparing the Services' prioritized lists.

Mr. Targosz provided a schedule through FY96 for the transition of DNA 6.2 projects to Navy 6.3/6.4 programs. All of the Navy sponsored DNA projects will transition into the WSS/WASP programs, except the Millimeter Wave project, which will transition into the SPS program. He also reported that the Navy had a 78.2% obligation rate for the first and second funding increments received from DOD. Col. Evans interjected that the third and final increment of FY91 RDT&E funding was released by DOD on 22 April 1991.

Mr. Targosz also presented charts illustrating the Navy PSE procurement, installation, and operations and maintenance funding projected through FY97 for the Nuclear Weapons (Ashore), Nuclear Weapons (Afloat), Electronic Security Systems (ESS), MILCON IDS, and major claimants programs. He said that in the Nuclear Weapons (Ashore) program the Navy used an Army contract to procure the armored personnel carriers, and an Air Force contract to procure the loader for the armored logistic transport vehicle. He pointed out, however, that a requirement existed for \$49.5M of procurement funding for equipment/vehicles used at certain storage sites,

but only \$25.8M was available. Mr. Cavileer suggested that the Nuclear Weapons (Ashore) program be an issue item to present to the PSESG, since there is no force reduction planned for these bases, yet the procurement budget has been reduced by nearly 50%. Col. Taylor, AF/SPX, suggested that it be worked as a Program Budget Decision (PBD) issue. Col. Evans requested that Mr. Targosz identify the specific budget line for the procurement funding of the Nuclear Weapons (Ashore) security so that OSD could work with the Navy on this issue. (Nuclear Weapons (Ashore) funding is included in Physical Security Equipment, Other Procurement, Navy, Element 0305134N, Budget Activity - 7; Program Line Item 0812800. Mr. Targosz next briefed the procurement funding for the security of Nuclear Weapons (Afloat). He pointed out that the installation costs for the security equipment is handled separately under the fleet modernization program. This sometimes leads to "disconnects" between procurement and installation of the equipment. Mr. Targosz also briefed the ESS procurement program and pointed out that some of the funding cuts were a result of deia; s in the WSS RDT&E program. He said that the average cost per site for procurement and installation of the WSS was approximately \$6.2M. Mr. Cavileer asked if there was any support for WSS beyond the submarine community. Mr. Targosz responded that CNO (OP-03), Assistant Chief of Naval Operations (Surface Warfare) had expressed interest in WSS during Desert Storm.

As a final item, Mr. Targosz briefed the status of all of the Navy's management options from the DOD PS Master Plan, Appendix C. He said that all of the Navy's management options have been implemented. The one option that had previously been open dealt with the Navy's adoption of a standard DOD definition for the level of protection of assets (i.e., levels A through D). Mr. Targosz said that the Navy now uses the DOD definitions provided in DOD 5000.8R as a guide. Col. Evans agreed that all of the Navy items on the DOD PS Master Plan had been completed, and that future reporting would not be required. The charts used in Mr. Targosz's briefing are provided at Attachment D.

## IV. MARINE CORPS PSE PROGRAMS

Maj. Terry Hess, USMC (Pos 43), provided an overview and funding status of the Marine Corps procurement programs. These programs include:

- The Physical Security Structure Upgrade Program (PHSSUP) a USMC-wide program to continuously evaluate and upgrade armories and magazines, and address other physical security requirements.
- The Arms, Ammunition and Explosives Intrusion Detection System (AA&E IDS) a USMC-wide program to provide state-of-the-art, expandable, NDI intrusion detection equipment. Maj. Hess reported that the Marine Corps had approximately \$7M in Product Investment Funds (PIF), but the Corps, in order to obtain the funds, had to recognize manpower savings. He stated that the Corps was being forced to make difficult decisions regarding their mission support to the Navy.
- The Automated Entry Control System (AECS) a USMC wide program to enhance the security posture by automating access control to restricted areas, and by integrating access control with the AA&E IDS.
- The HMX-I Security Enhancements to increase protection of high priority aircraft by determining, detecting, and denying unauthorized entry.

Maj. Hess reported that all active programs are ongoing, and that funding is programmed except for the funding shortfalls noted in the AA&E IDS and AEC\$ programs. Funding for these "add-on" electronic security systems will be submitted as POM initiatives.

Maj. Hess then presented the status of the Marine Corps' management options and summary actions listed in Appendix C of the DOD Master Plan. All of the items have been completely implemented. Col. Evans said, therefore, that there is no requirement to report their status in the future. The charts used by Maj. Hess in his presentation are provided at Attachment E.

## V. AIR FORCE PSE PROGRAMS

Col. Corso, HQ Air Force Security Police Center (AFSPC), announced that this would be his last meeting as the Air Force PSEAG representative, and that Col. Steve Manell would be replacing him as the Air Force PSEAG representative. He also announced that the functions of the HQ Air Force Office of Security Police (AFOSP) in Albuquerque, NM were being transitioned to the Pentagon, and that the name of the new organization would be the HQ AFSPC.

Col. Corso briefed the Air Force 6.3/6.4 PSE RDT&E programs. He said that the Air Force consolidated the RDT&E programs into eight separate programs under the BISS program umbrella as shown on Chart A. He explained that the Air Force Annunciator program, is a "stop gap" measure to meet immediate operational requirements while waiting for the full-capability DOD annunciator to be fielded. Three on-going efforts under this program are: 1) the development of a standard annunciator system, AN/GSS-41; 2) the development of a small annunciator system, AN/GSS-44; and 3) support of the Army ICIDS program. The development programs for the AN/GSS-41 and AN/GSS-44 will be concluded by the end of FY91, with the completion of actions necessary for Program Management Responsibility Transfer (PMRT) to the Air Force Logistics Command (AFLC). He stated that initial estimates of the Air Force production requirements for the ICIDS had been passed to the Army.

The Air Force Advanced Entry Control System (AECS) is an access control system to be employed at entry control points of restricted and controlled areas. The system will have up to three levels of personal identification, depending upon the security requirements. Col. Corso reported that a market investigation had been completed in FY91, and a system integration and production contract is scheduled to be awarded in FY92. The Initial Operational Capability (IOC) is scheduled for FY93. Production of 34 Air Force systems is planned through FY92, at a cost of \$29.7M. Col. Corso reported that a concept definition system is being installed at Ellsworth AFB this fiscal year. Col. Evans asked if the Strategic Air Command (SAC) was satisfied with the system at Ellsworth. Col. Corso responded that SAC was pleased and that the system should be operational later this year.

The Dispersed Integrated Security System (DISS) is a new start program that encompasses both the Air Base Ground Defense and relocatable individual resource protection requirements. The DISS is a transportable system capable of operating in a wide range of missions against various threats. The program consists of three distinct elements. The first addresses the relocatable individual resource protection requirements using a complement of relocatable sensors. A contract award for the integration of commercial NDI products is scheduled for award in early FY92. The second elements addresses the requirement for intrusion detection and assessment systems for use in a dispersed mode. A production contract is scheduled for FY92. The third element is a complete systems integration effort. A contract will be awarded in FY92 to integrate the commercial and developed components. Col. Corso reported that an Air Force Statement of Need (SON) has ben drafted but is not yet approved. A JSOR has also been drafted and has been released for informal staffing. Col. Evans reminded the Air Force of the need to coordinate with the Army's Tactical Force Protection program to ensure that there was no duplication of RDT&E efforts. He also encouraged the Air Force to work the issue of coordinating and finalizing the requirements documentation.

Col. Corso reported that the Electronic Engagement System (ESS) responds to the need for force-on-force training equipment. The requirement was based on the Tactical Engagement Simulation Systems (TESS). In FY91 the Air Force initiated an effort to compare the Sandia-developed TESS with commercially available systems. It is hoped that the comparative review will show that the commercial system will meet at least 90% of the user requirements. Based on the results of the comparative review, an acquisition contract is planned for FY92. Col. Evans asked if the ESS was a single Service program. Mr. Targosz responded that the Navy has a need for this type of equipment, but the MILES equipment still meets Navy needs and the Navy procurement funding for TESS was reprogrammed.

The proposed Airborne Detection System (ADS) will detect ultralight aircraft, hang-gliders, para-sails, and parachutes advancing on protected areas. A full scale development program is scheduled to begin in FY95. Col. Corso said that there is a valid requirement for this type of system, however, the operational concept still needs to be developed. Col. Evans stated that the Air Force should present the requirements document to the JRWG. Mr. Desmond, DOE, said that his organization could use an ADS now.

The Aircraft Embedded Security System (AESS) will be a system of sensors which are built into the airframe of various aircraft; thus, eliminating the need for security forces to be in close proximity to the aircraft. A full scale development project is scheduled to begin in FY95. Col Corso stated that currently there is no official requirement for AESS, and that the concept of operation and the system needed to be developed in parallel efforts.

The Base and Installation Entry Control System (BIECS) will provide a means of automatically identifying authorized vehicles and personnel through various identity devices such as bar code decals and magnetic stripe ID cards. There is currently no official requirement for this program. If the program is supported it will likely be integrated into the AECS program. A planning date of FY98 has been established for the start of an RDT&E effort.

The Thermal Imager Systems program is a new, two-phase program. Phase one will integrate the Low Cost Uncooled Sensor Program (LOCUSP) imagers into common physical security applications for CCTV equipment. Phase two will apply LOCUSP imagers to development systems such as the Mobile Intrusion Detection and Assessment System (MIDAS). Documentation will be prepared in FY92 for a system integration and production contract which is scheduled to be awarded in FY93. Col. Willingham, DNA, added the DNA 6.2 program for MIDAS was being closed out, but that the concepts developed under the MIDAS program would feed into the Air Force Thermal Imager program.

The Portable Reconfigurable Line Sensor is a line-of-sight sensor which can be employed in either a portable or fixed mode. The request for proposal (RFP) for this commercial off-the-shelf (COTS) NDI program is currently in preparation. The program is scheduled to last through FY93 at an estimated cost of \$2.4M.

Col. Corso also briefed the Air Force funding, Charts A through D, for the RDT&E and procurement/installation programs. He reported that both the AECS and the portable line sensor procurement contracts would be 5-year indefinite delivery order, indefinite quantity type contracts that could be used by the other Services as a vehicle to procure equipment. He also presented the status of the Air Force's implementation of the management options from the DOD PS Master Plan. Of the 17 management options, ten have been fully implemented, while the other seven remain not implemented or at issue. Col. Evans said that the Air Force will have to report again at next year's annual PSE review on the status of the remaining seven management options.

Mr. Cavileer inquired about the Air Force RDT&E funding for the Active Denial program after it transitions from DNA. Col. Corso responded that it will be separately funded by SAC as a

security upgrade program. Col. Evans tasked the Air Force to confirm, in writing from SAC, the source of funds, as well as the level of funding available by fiscal year. He said that if SAC does not fund the RDT&E for Active Denial, then the Air Force will have to restructure its overall BISS RDT&E funding plan. Mr. Cavileer commented that the amount of procurement dollars remaining for the procurement of PSE has shrunk to such a low level that the size of the current RDT&E investment in PSE may be brought into question. Col. Evans responded that there is a changing trend in the DOD, whereby RDT&E investments will continue, but procurements will be scaled back unless needed in response to national emergencies. Fewer systems will be bought, but RDT&E funding to improve both technology and existing systems will continue. Col. Corso stated that the Air Force had committed 85% and obligated 71% of its funds.

The charts used by Col. Corso in his presentation and handouts pertaining to the Air Force PSE programs are provided at Attachment F.

## VI. DNA FY92 6.2 PROGRAMS

Col. Willingham, DNA (OPNS), briefed the DNA FY92 PSE 6.2 programs. He presented a brief description of the continuing programs and the FY92 new start programs. He also presented a chart entitled "FY-1992 PRIORITIZATION LIST" which listed the overall priority of each program, as well as the lead and participating Service sponsors. Col. Willingham emphasized that the Services and DNA will both be involved in drafting the Statements of Work for the new start programs and that there will be continued coordination between DNA and the Services to ensure that the program proceeds in the intended direction. Col. Evans requested that the Adversary Testing program be incorporated into the other PSE programs requiring adversary testing rather than being listed as a separate program. Col. Willingham agreed. Col Willingham stated that the Air Force Systems Command (AFSC) was very interested in the Active Denial program, and that there was a possibility that the command was going to expend \$50 million on the program. Both Col. Evans and Col. Corso expressed skepticism that any of that money would be available to support physical security applications of Active Denial. Col. Evans asked Col. Corso and Col. Willingham to investigate the issue and report their findings at the next PSEAG Executive Session. The Chairman also strongly suggested that the lead Services for the new start programs begin to work the issue of requirement documents/JSORs as soon as possible. He also asked Col. Willingham if all DNA programs that were ending in FY91 were transitioning to a lead Service. Col. Willingham, responded in the affirmative.

The status of DNA's management options from Appendix C of the DOD PS Master Plan are provided at Attachment G. All management options have been fully implemented, and no future reporting requirements for these items exist. A copy of Col. Willingham's presentation charts, as well as program description summaries, are also provided at Attachment G.

## VII. ADDITIONAL AGENDA ITEMS

- a. Col. Evans introduced Dr. Dan Smith, Chief, Planning and Technology Development Branch, Office of Safeguards and Security, Department of Energy. Dr. Smith informed the members that his organization was responsible for the oversight, planning, and coordination of safeguards and security. He said that his office is interested in sharing information with DOD relating to physical security R&D efforts. Mr. Smith provided briefing charts explaining his organization, functions, and areas of interest (see Attachment H).
- b. Review of PSEAG Action Items. The Chairman reviewed the status of open action items from the 6 Dece .ber 1990 and 27 February 1991 PSEAG Executive Sessions. The status of the action items is provided below.
- 1. Action Item: The Air Force will provide their input on the termination of the TESS program or their commitment to continue the program as a single Service (Air Force) program.

Status: Closed. See paragraph V.

2. Action Item: The Air Force will relook the DISS Program to ensure that the program and all other Air Force RDT&E efforts fit within the new funding guidance provided by the PSEAG Chairman.

Status: Closed. See paragraph V.

3. Action Item: The Navy will develop a revised budget plan for the WSS program and delay WASP until WSS RDT&E is completed.

Status: Closed. See paragraph III.

4. Action Item: The Service and DNA members will update the status of their implementation of the DOD Physical Security Master Plan using the previous four charts provided and new chart formats provided by the PSEAG Chairman.

Status: Closed. See paragraph II-VI for the Army, Navy, Marine Corps, Air Force, and DNA respectively.

5. Action Item: The Air Force, as lead Service, will add Denial Systems to the Joint Requirements List.

Status: Open. Col. Corso reported that action had been initiated to add Denial Systems to the Joint Requirements List. However, the process has been delayed somewhat due to a change in procedures. He will continue to monitor the action until completion.

6. Action Item: The Services and DNA representatives will review their FY91 obligation rates and provide a status report.

Status: Closed. The obligation rates for the first two funding increments for each Service and DNA were provided during the meeting.

7. Action Item: The Services and DNA representatives will provide the prioritization of their PSE programs and the associated budgeting data.

Status: Closed. See paragraph II-VI for the Army, Navy, Marine Corps, Air Force, and DNA respectively.

8. Action Item: The Services and DNA representatives will provide an update on the implementation status of the management options outlined in the PSE portion of the DOD Physical Security Master Plan.

Status: Closed. See paragraphs II-VI for the Army, Navy, Marine Corps, Air Force, and DNA respectively.

9. Action Item: The Services and DNA will identify potential PSE Steering Group agenda items, and whether or not a meeting is required.

Status: Closed. The military departments reported to the Chairman that they had no issues. As a result, no PSESG is scheduled for June 1991.

## VIII. ADJOURNMENT

The Chairman thanked everyone for their participation and work during the year. He stated that the next Executive Session would be held in late August - early September 1991. A summary of open action items is provided at Attachment I. There being no additional discussion, the Chairman adjourned the meeting.

Attachment A

Meeting Announcement and Agenda



## OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING

WASHINGTON, DC 20301

(PER)

3 2 Wid 1981

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY (RESEARCH)

DEVELOPMENT, AND ACQUISITION)

ASSISTANT SECRETARY OF THE MAVY (RESEARCH)

DEVELOPMENT AND ACQUISITION)

ASSISTANT SECRETARY OF THE AIR FORCE (ACQUISITION)

DIRECTOR, DEFENSE NUCLEAR AGENCY

SUBJECT: Annual Review of Physical Security Equipment (PSE)
Programs

The Physical Security Equipment Action Group (PSEAG) will convene on 1 May 1991, at 0830 hrs, to review Service and Defense Nuclear Agency (DNA) physical security equipment programs. The Services and DNA are requested to present briefings on their current physical security systems R&D, procurement, and installation efforts. Briefings on R&D should include program and project description and status, schedule for completion, testing, and production planning (including estimated production costs and quantities). Briefings on procurement and installation programs should include project description and status, schedule, funding for FY 91-98, production quantities (based on joint Service requirements), and major installations/platforms initiated and/or completed during the past year. The Services should identify any R&D, procurement, or installation project problems which may delay or adversely affect their programs. DNA should brief their ry 91-98 exploratory development programs for physical security and indicate their relationship to the Services' 6.3/6.4 programs, when applicable. Services should be prepared to show the planned follow on R&D funding lines for those applicable DNA profects.

In addition to R&D, procurement and installation briefings, each of the Services and DNA are to present a briefing on the progress in implementing the Physical Security Equipment Portion, Appendix C, of the DoD Physical Security Master Flan (PSMP). Formats for the briefing viewgraphs were provided to PSMAG members in the minutes of the 27 February 1991, executive session.

The Army Product manager Physical Security Equipment (PM-PSE) has agreed to host this year's program review at Pt. Selveir. The review will be held in the conference room of Suilding 392, BRDEC, Fort Belvoir, Virginia. The conference room has overhead projection equipment. Also, briefers shall provide

the Chairman, PSEAG with two complete copies of their briefing material.

Hembers of the Joint Service Requirements Working Group and the Security Equipment Integration Working Group are also invited to attend. Attendees should provide name, SSN, and clearance verification to Mr. Irwin S. Rosen, Deputy Product manager, BRDEC-AMCPM-PSE, Ft. Belvoir, VA, 22060-5606, (703) 664-2883/Autovon(DSN) 354-2883 with an info copy to Col David C. Evans, ODDDRE/P&R(ASPO), Pentagon, Washington, D.C., 20301-3100, (703) 695-9536/Autovon(DSN) 225-5936 by 22 April 1991.

H. Steven Kimmel
Deputy Director
Defense Research and Engineering
(Plans & Resources)

Attachments: Agenda

CC: DDRE (Strategic and Theater Nuclear Forces)
ATSD (Atomic Energy)
OASD (Special Operations/Low-Intensity Conflict)
Director, Security Plans and Programs, ODUSD(Security Policy)
Chairman, DoD Joint Service Requirements Working Group
Chairman, DoD Security Equipment Integration Working Group

## **AGENDA**

## Annual Review of Physical Security Equipment Programs 1 May 1991

0830	Welcome, Admin Remarks, Introduction
0900	Army Programs
	<ul> <li>Research and Development</li> <li>Procurement and Installations</li> <li>DoD PSMP, Appendix C Implementation</li> </ul>
0930	Break .
0940	Navy Programs
	<ul> <li>Research and Development</li> <li>Procurement and Installation</li> <li>DoD PSMP, Appendix C Implementation</li> </ul>
1010	Marine Corps Programs
	<ul><li>Procurement and Installations</li><li>DoD PSMP, Appendix C Implementation</li></ul>
1030	Break
1040	Air Force Programs
	<ul> <li>Research and Development</li> <li>Procurement and Installations</li> <li>DoD PSMP, Appendix C Implementation</li> </ul>
1110	Break
1110 1120	<ul> <li>Break</li> <li>DNA 6.2 PSE Programs</li> <li>DoD PSMP, Appendix C Implementation</li> </ul>
	- DNA 6.2 PSE Programs
1120	<ul> <li>DNA 6.2 PSE Programs</li> <li>DoD PSMP, Appendix C Implementation</li> </ul>
1120 1150	<ul> <li>DNA 6.2 PSE Programs</li> <li>DoD PSMP, Appendix C Implementation</li> </ul> Lunch

Attachment B
Attendee List

## **ATTENDEES**

NAME	MAILING ADDRESS	PHONE
Col Lee Carroll	ESD/AVJ Hanscom AFB, MA. 01731	COM: (617) 377-3993 AV: 478-3993
Doug Cavileer	ODUSD(SP) CIS/SPP 3C285 Pentagon Washington, DC 20301-2200	COM: (703) 697-5568 AV: 227-9077
Col Andrew A. Corso	HQ, AFSPC ATTN: SPP Kirtland AFB, NM 87111	COM: (505) 844-2692 AV: 244-2692
William J. Desmond	WJ. Desmond, SA 121 Office of Safeguard & Security U.S. Dept of Energy Washington, DC 20545	COM: (301) 353-4244
Col Dave Evans	OSD ATTN: ODDR&E (P&R) Washington, DC 20301	COM: (703) 695-9536 AV: 225-9536
Dave Greer	CSC Analytics 3702 Pender Drive Fairfax, VA 22030	COM: (703) 246-9060
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Col C. J. Heubusch	OATSD (AE) Pentagon Washington, DC 22330	COM: (703) 697-3575 AV: 227-3575
Maj David MacKenzie	ESD/AVJB Hanscom AFB, MA 01731	COM: (617) 377-6409 AV: 478-6409 FAX: (617) 377-8832
Jack R. Millett	CDR AMC ATTN: AMDE-CI 5001 Eisenhower Ave Alexandria, VA 22333-0001	COM: (703) 274-9651 AV: 284-9651 FAX: (703) 274-5417
Emmanuel Nidhiry	HQ AMC ATTN: AMCDE-CI 5001, Eisenhower Ave Alexandria, VA 22333	COM: (703) 274-9651 AV: 284-9651 (703) 274-5147
Morris Outwater	ESD/AVJB Hanscom AFB, MA 01731-5000	COM: (617) 377-8852 AV: 478-8852

NAME	MAILING ADDRESS	PHONE
LTC Larry J. Petcu	PM-PSE Belvoir RD&E Center ATTN: AMSTR-PB(PSE) Fort Belvoir, VA 22060-5606	COM: (703) 664-2883 AV: 354-2883
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Benjamin C. Runner	OASD (SO/LIC) CT Pentagon 2B539 Washington, DC 20301	COM: (703) 693-2898
Dr. G. Dan Smith	Chief, Planning and Technology Development Branch (SA-134) Office of Safeguards and Security U.S. Department of Energy Washington, DC 20545	COM: (301) 353-2545 FTS: 233-2545 FAX: (301) 353-4164
Richard A. Swanson	CSC/Analytics 3702 Pender Dr. Fairfax, VA 22030	COMM: (703) 359-2850
Leopold L. Targosz, Jr.	CNO (OP-09N1) ATTN: Code 24X24 Washington, DC 20388-5024	COMM: (202) 433-9138 AV: 288-9138 FAX: (202) 433-9079
Col David Taylor	AF.SPX Pentagon Washington, DC 20335	COM: (703) 614-8641
Darryl B. Toms	Office of Safeguards & Security SA-121 Department of Energy Washington, DC 20545	COM: (301) 358-7087 FAX: (301) 353-4164
K. Velentlas	NISCOM/OP-O9N1, Code 24 Washington, DC	COM: 433-9144 AV: 288-9144 FAX: (202) 433-9079
Col. Frank M. Willingham	HQ DNA (OPNS) 6801 Telegraph Rd Alexandria, VA 22310-3398	COMM: (703) 325-7395 AV: 221-7395 (703) 325-2951
William J. Witter	HQ, DNA (NSNS) 6801 Telegraph Road Alexandria, VA 22310-3398	(703) 325-1002 AV: 221-1002 FAX: 325-2951

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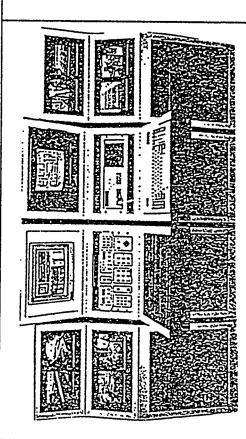
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Attachment C
Army Presentation Charts

# INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM (ICIDS)



## **DESCRIPTION/OBJECTIVES**

PROGRAM PURSUING A NONDEVELOPMENT ITEM DETECTION SYSTEM USING STATE-OF-THE-ART A HIGHLY SECURE STANDARDIZED INTRUSION SERVICE SYSTEM PROTECTING HIGH DOLLAR AND CRITCAL DEFENSE ASSETS. THE ICIDS I ACQUISITION APPROACH PROVIDING A JOINT REQUIRED LEVELS WITHOUT A SIGNIFICANT REQUIREMENTS DOC: MN, 1979/JSOR, 1989 TECHNOLOGY. THIS PROGRAM REPLACES AGING AND OBSOLETE EQUIPMENT AND UPGRADES INSTALLATION SECURITY TO DRAFT. THE ICIDS IS A REDIRECTED NCREASE IN MANPOWER.

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FUNDING

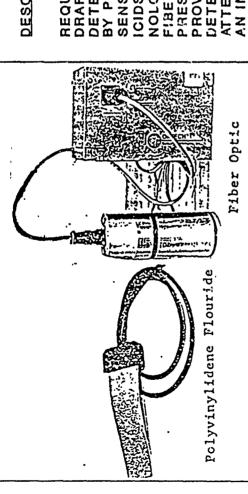
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TO BE DETERMINED

PROCUREMENT:

F Y 89	FY90 FY90	FY91 FY92	FY96
SPECIAL IPR REDIRECTION	MILESTONE I/III IPR	CONTRACT AWARD 1ST GENERATION FIRST UNIT EQUIPPED	EXPECTED UPGRADE/REBUY
OF FIDS - MARKET INVESTIGATION	TYPE CLASSIFICATION DECISION		1ST GENERATION

## ADVANCED SENSORS (AS)



## DESCRIPTION/OBJECTIVES

NOLOGIES INCLUDE POLYVINYLIDENE FLOURIDE, DETECTION SENSING CAPABILITY OF THE ICIDS PRESENCE SENSORS, THESE SENSORS WILL EMERGING TECH-SENSORS TO BE FIELDED IN GROUPS OVER REQUIREMENTS DOC: MN, 1979/JSOR, 1989 DRAFT. AS WILL IMPROVE THE INTRUSION BY PROVIDING TECHNOLOGICALLY MATURE ATTEMPTED INTRUSION OF FACILITIES BY FIBER OPTICS, DUAL TECHNOLOGY, AND PROVIDE THE ADVANCED CAPABILITY OF AN INCREASING SOPHISTICATED THREAT DETECTING UNAUTHORIZED ENTRY OR CIDS ENTIRE LIFE CYCLE.

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PHASE

PHASE II

6.3

6.4

OPA AS I

(\$K)

FUNDING

MARKET INVESTIGATION	FY89
PROOF OF PRINCIPLE MODELS AS-1	FY90-91
ENGINEERING CHANGE PROPOSAL	FY92
PRODUCTION AS-1 w/ICIDS-1	FY92-96
PROOF OF PRINCIPLE MODELS AS-II	FY92-93
DEVELOPMENT PROVE-OUT DECISION FY93	4 FY93
PRODUCTION PROVE-OUT MODELS	FY94-95
PRODUCTION DECISION	FY96

INCL W/ICIDS I U/R INCL W/ICIDS I

BELVOIR RESEARCH, DEVELOPMENT

GOVERNMENT/CONTRACTOR

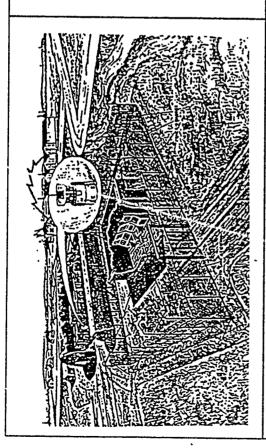
AS II

AND ENGINEERING CENTER

USAMP SCHOOL

613

# MOBILE DETECTION ASSESSMENT RESPONSE SYSTEM (MDARS)



## IPTION/OBJECTIVES (INTERIOR) DES

CAPABLE OF EMPLOYING ACTIVE DELAY, DEVICES PROVIDING AN INCREMENTAL UPGRADE OF THE SYSTEM. PHASE I AND II WILL BEGIN WITH INTERIOR MOBILE PLATFORMS AND EVOLVE TO LOPED IN THREE MAJOR PHASES, EACH PHASE PHASE II WILL REQUIREMENTS DOC: ROS 3 - INT O&O PLAN, 1985. THE MDARS PROGRAM WILL BE DEVE-AND NON-LETHAL RESPONSE TECHNOLOGIES THE REQUIREMENT FOR STATIC PLATFORMS AND MOBILE PLATFORMS WITH INSTALLED IDS COMPONENTS INTO A SINGLE SYSTEM. ENHANCE PHASE I CAPABILITIES AND ADD PHASE III WILL INTEGRATE ALL STATIC EXTERIOR MOBILE PLATFORMS.

## FUNDING

(\$K)

1700 1250 6-7 (400) (2950) (750) 96 2-9 1700 3050 95 580 94 1120 1320 93 2710 2230 92 91 3440 PHASE III PHASE 11 PHASE RDTE OPA QTY

## **GOVERNMENT/CONTRACTOR**

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ARMY ARMAMENT MUNIT	<b>Q</b>
MAME	COMMAND
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HOLE: US	AND CHEMICAL
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TO BE DETERMINED

PROCUREMENT:

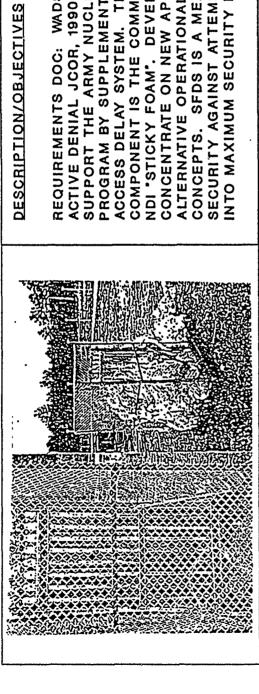
## MAJOR MILESTONES

MARKET INVESTIGATION - PHASE I	FY89
DEVELOPMENT PROVE-OUT DECISION	FY91
PRODUCTION DECISION PHASE I	FY93
PRODUCTION - PHASE I	FY94-95
PRODUCTION - PHASE II	FY97
PRODUCTION - PHASE III	FY00

# MOBILE DETECTION ASSESSMENT RESPONSE SYSTEM (MDARS)

			7			4	DESCRIPTION/OBJECTIVES (EXTERIOR)	
							REQUIREMENTS DOC: ROS 3 - INT O&O PLAN, 1985. THE MDARS PROGRAM WILL BE DEVE-LOPED IN THREE MAJOR PHASES, EACH PHASE	LAN, EVE- PHASE
								TH THE TO
							EXTERIOR MOBILE PLATFORMS. PHASE II WILL ENHANCE PHASE I CAPABILITIES AND ADD THE REQUIREMENT FOR STATIC PLATFORMS	II WILL
							CAPABLE OF EMPLOYING ACTIVE DELAY DEVICES AND NON-LETHAL RESPONSE TECHNOLOGIES. PHASE III WILL INTEGRATE ALL STATIC	DEVICES GIES.
NAME OF THE PARTY		The second	<b>西</b>		なるであ	ž,	IDS COMPONENTS INTO A SINGLE SYSTEM.	Σέ
EUNDING			(\$K)	: :			MAJOR MILESTONES	
	91	85	93	94	95	96	TRANSITION FROM DNA	FY92
RDTE PHASE I		1500	1500	1750	1655		DEVELOPMENT PROVE-OUT DECISION	FY93
PHASE II						1500	PRODUCTION DECISION PHASE 1	FY95 FY96-98
OPA					_	(1000)	PRODUCTION - PHASE II	FY00-02
QTY						4		
GOVERNMENT/CONTRACTOR	NT/C0	NTRACI	OB					
RDTE: US ARMY ARMAMENT AND CHEMICAL COMMAND	ICAL CC	RMAME	Σ	UNITIONS	S Z	<del></del>		
PROCUREMENT:		TO BE D	DETERMINED	MINED				

# STICKY FOAM DISPENSING SYSTEM (SFDS)



DESCRIPTION/OBJECTIVES
REQUIREMENTS DOC: WADS ROC, 1981
ACTIVE DENIAL JCOR, 1990 (DRAFT) SFDS
SUPPORT THE ARMY NUCLEAR SECURITY
PROGRAM BY SUPPLEMENTING THE WEAPONS
ACCESS DELAY SYSTEM. THE BASIC
COMPONENT IS THE COMMERCIALLY AVAILABLE
NDI "STICKY FOAM". DEVELOPMENTAL EFFORTS
CONCENTRATE ON NEW APPLICATIONS IN
ALTERNATIVE OPERATIONAL EMPLOYMENT
CONCEPTS. SFDS IS A MEANS TO UPGRADE
SECURITY AGAINST ATTEMPTED INTRUSIONS
INTO MAXIMUM SECURITY LEVEL FACILITIES.

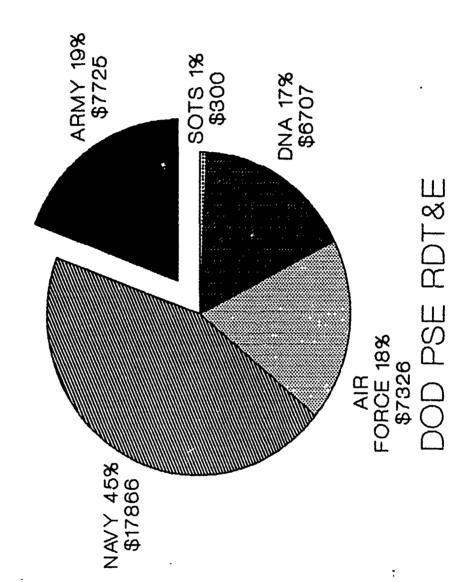
LITIES.

MAJOR MILESTONES	TRANSITION FROM DNA	PROOF OF PRINCIPLE	DEVELOPMENT PROVE	PROVE-OUT MODEL TE	PRODUCTION DECISION
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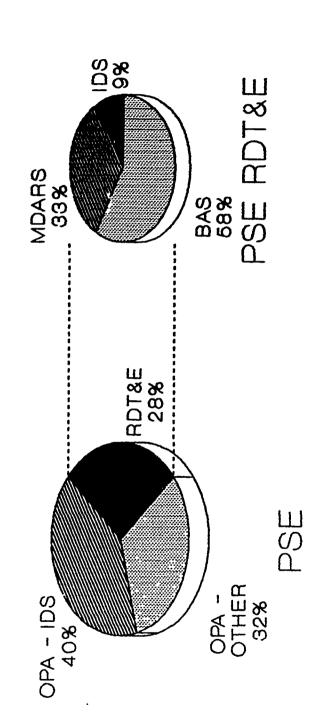
GOVERNMENT/CONTRACTOR	
RDTE: ARMAMENT RESEARCH DEVELOPMENT & FNGINFERING CENTER	

FY90
FY90-9
DEVELOPMENT PROVE-OUT DECISION FY91-92
FY92-9
FY93
FY93
FY93

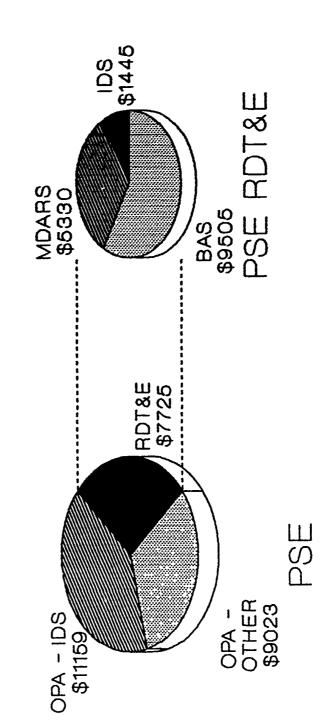
## DOD FY92 FUNDING



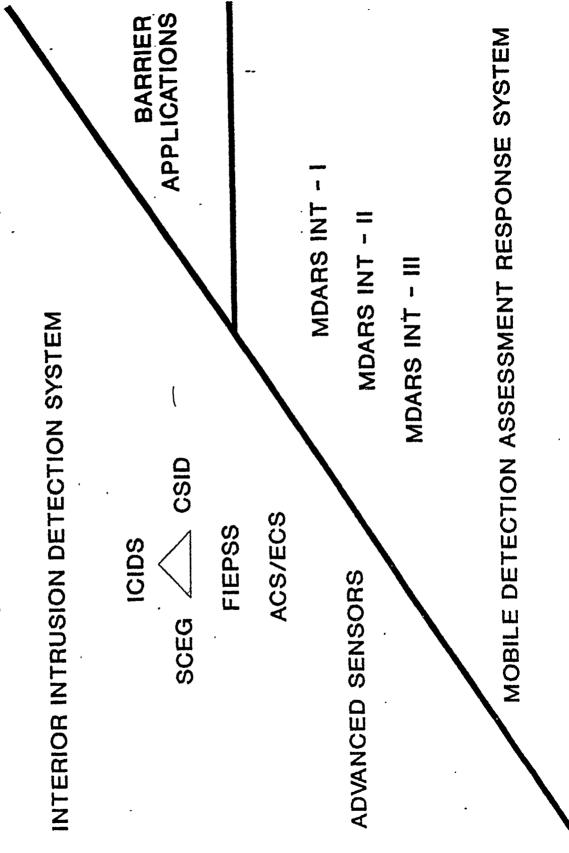
# ARMY FY 92 FUNDING

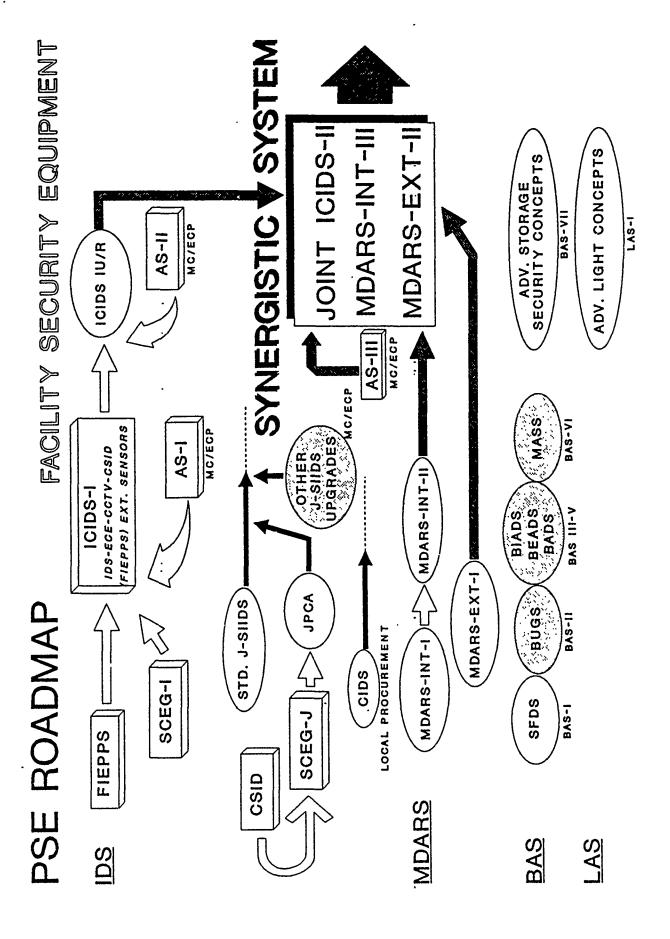


# ARMY FY 92 FUNDING



## ARMY PSE FOCUS





## ARMY PSE RDT&E PROGRAMS

## INTRUSION DETECTION SYSTEMS (IDS) PROGRAMS

ICIDS-I	INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM - 1ST GENERATION (LIMITED DISTRIBUTION)
ICIDS-I U/R	INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM - UPDATE AND/OR REBUY OF 1ST GENERATION
ICIDS-II	INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM - 2ND GENERATION (JOINT)
SCEG-1	SMALL CONSOLE EQUIPMENT GROUP - ICIDS APPLICATION (SMALL PRIMARY MONITOR CONSOLE)
SCEG-J	SMALL CONSOLE EQUIPMENT GROUP - J-SIIDS APPLICATION (J-SIIDS PC ANNUNCIATOR)
CSID	COMMERCIAL SYSTEMS INTERFACE DEVICE - TYPE I (J-SIIDS INTERFACE) - TYPE II (BISS/COMMERCIAL IDS INTERFACE)
FIEPSS	FIXED INSTALLATION EXTERIOR PERIMETER SENSOR SYSTEM
AS-II AS-III AS-III	ADVANCED SENSORS - GROUP I (w/ICIDS-I) ADVANCED SENSORS - GROUP II (w/ICIDS-I U/R) ADVANCED SENSORS - GROUP III (w/ICIDS-II)

## ARMY PSE RDT&E PROGRAMS

# MOBILE DETECTION ASSESSMENT RESPONSE SYSTEMS (MDARS)

MDARS INTERIOR - PHASE MDARS-INT-I

(BARRIER/PRODUCT ASSESSMENT:

PATROL; PRE-PROGRAMMED/TELEOPERATED STAND-ALONE ASSESSMENT TOOL)

MDARS-INT-II

MDARS INTERIOR - PHASE II

(HUMAN INTRUSION DETECTION;

AUTONOMOUS MOVEMENT TO ALARMS;

OPERATOR-CONTROLLED NON-LETHAL RESPONSE DEVICES; ENTRY/INVENTORY CONTROL;

INTEGRATION WITH FIXED IDS)

MDARS-INT-III

MDARS INTERIOR - PHASE III

(RECOGNITION OF INTRUSION EVIDENCE;

NAVIGATION VIA NATURAL LANDMARKS;

DEVICE; OPERATOR-CONTROLLED LETHAL RESPONSE HARDENED/DELAY INDUCING CAPABILITY;

MANIPULATOR ARM)

PHASE EXTERIOR -MDARS MDARS-EXT-I PHASE EXTERIOR MDARS MDARS-EXT-II

18 Apr 90

## ARMY PSE RDT&E PROGRAMS

## BARRIER APPLICATION SYSTEMS (BAS)

STICKY FOAM DISPENSING SYSTEM (SFDS) BAS-I

BARRIERS FOR UNDERGROUND STORAGE (BUGS) BAS-II

- FORCED ENTRY DENIAL SYSTEMS/ PERSONNEL BARRIER (FEDS/PB)

VEHICLE BARRIER (FEDS/VB)

(PENDING JRWG REVIEW)

BARRIER - INTERIOR ACTIVE DENIAL SYSTEM (BIADS) (PENDING ACTIVE DENIAL JSOR) BAS-III

BARRIER - EXTERIOR ACTIVE DENIAL SYSTEM (BEADS) BAS-IV

(PENDING ACTIVE DENIAL JSOR)

SECURE STORAGE (MASS) MAINTENANCE & ASSEMBLY (PENDING JRWG REVIEW) BAS-V

BARRIER - AERIAL DENIAL SYSTEM (BADS) (PENDING ACTIVE DENIAL JSOR) BAS-VI

## PHYSICAL SECURITY EQUIPMENT ARMY RDT&E PROGRAMS (\$ IN THOUSANDS)

CHART A

PROGRAMS PREV EY91 EY92 EY93 EY94 EY96 EY96 EY97 EY98 SUBTOTAL		8429	11436		20348	16075		1216	1200
<b>EY98</b>		2000	1100			2400		900	
EY97		2600			3182				
FY96		866			2750	1700			
<b>FY95</b>		100	800			4705			
<b>EY94</b>		100	978		1700	2830			
EY93		713			2820	2830			260
<b>FY92</b>		1246	200		2620	2710			900
EY91		300	1932		3440			361	
PREV		616	6730		3836			354	
ROGRAMS	1. ID8	6.3	6.4	2. MDARS	<b>6.3</b>	6.4	s. BAS	6.3	4.0
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1800	8303	5103
3533	2480	6013
3865	3860	7726
4101	1932	6033
4806 4	6730 19	GRAND TOTAL 11536 60
		TOTAL
6.3	4.9	GRAND

## PHYSICAL SECURITY EQUIPMENT ARMY IDS RDT&E PROGRAMS (\$ IN THOUSANDS)

		5146		4100			1174			1183	1478		1665	1100
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											•		766	
•				100							800			
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	1. ICIDS 1	1. ICIDS 1 6.8	3583 1362 200	3583 1362 200	3583 1362 200 100 100 100 100 1600 2000	3683 1362 200 100 100 100 100 1600 2000	3583 1362 200 100 100 100 100 1600 2000	3583 1362 200 100 100 100 100 1600 2000 349 250 575	3683 1362 200 100 100 100 100 1600 2000 349 250 575	349 250 676	\$683       1362       200         100       100       100       100       2000         \$49       250       675         570       618	3683       1362       200         100       100       100       1600       2000         349       250       676         570       613       978       600       600	3583 1362 200 100 100 100 100 1600 2000 349 250 575 570 618 978 500 · ·	3683 1362 200 198 III 100 100 100 100 1600 2000 1 349 250 575 III 570 613 500 755 900

## PHYSICAL SECURITY EQUIPMENT ARMY IDS RDT&E PROGRAMS (\$ IN THOUSANDS)

CHART B1

EY88 SUBTOTAL			1674			1244		317				799		
<b>EY98</b>														
EY92 EY93 EY94 EY96 EY96 EY97														
<b>EY96</b>														•
<b>EY95</b>														•
<b>FY94</b>														
<b>EY93</b>														· :
EY92														
7						520		90				90		
PREV			1674			724		267				749		
PROJECTS PREV FY	8. SCEG 1	6.3	4.0	SCEG J	<b>6</b> .8	4.0	4. CSID	8.0	6.4	5. FIEP88	6.8	4.0		

	2000	1100	3100
	2500		2500
	855		866
	100	200	009
	100	978	1078
	713		713
	1246	200	1446
	300	1932	2232
	616	6730	7346
AL8			TOTAL
<b>SUBTOTAL</b> 8	6.3	6.4	GRAND

8429 11486 19864

## PHYSICAL SECURITY EQUIPMENT ARMY MDARS RDT&E PROGRAMS (\$ IN THOUSANDS)

SUBTOTAL		7276	6520		4140	4760		2882	006		3000	3405		8000	1600		20348	16076	86428
<b>EY98</b>									000						1600			2400	2400
<b>EY97</b>			,		•	•		1682						1600			3182		3182
EY95 EY98					:	1700		1250						1600			2750	1700	4460
<b>EY95</b>						3050						1655						4708	4705
<b>EY92 EY93 EY94</b>			680		1700							1760					1700	2880	4080
FY93			2230		1320						1600						2820	2280	5050
EY92			2710		1120						1500						2620	2710	5330
FY91		3440															3440		3440
PREV	_	3888		=			=						=				3836		3836
PROJECTS PREV	MDARS INT	6.3	6.4	MDARS INT	8.0	6.4	MDARS INT III	6.8	6.4	2. MDARS EXT	6.3	6.4	MDARS EXT II	6.8	6.4	<b>SUBTOTAL8</b>	6.8	4.4	GRAND TOTAL
م	<b>;</b>									લં						38			0

## ARMY BARRIER APPLICATION SYSTEMS RDT&E PROGRAM (\$ IN THOUSANDS) PHYSICAL SECURITY EQUIPMENT

CHART B8	SUBTOTAL		716	1200		0 00			250			1216	1200	2415
	<b>EY98</b>					280			250			900		900
	<b>EY97 EY98</b>													
5	<b>EY95 EY98</b>													
	<b>FY95</b>							•						
) :	<b>EY94</b>													
<b>:</b>	<b>EY92 EY93</b>			250	EPT8			.PT8					260	260
	<b>FY92</b>			950	E CONC			CONCE					980	960
	EY91		361		STORAG			GHTING				361	:	361
	PREV		864		MNCED			NCED LI				964		354
	PROJECTS PREY	SFDS	6.3	6.4	BAS VII ADWANCED STORAGE CONCEPTS	6.8	6.4	2. LAS I ADVANCED LIGHTING CONCEPTS	6.8	6.4	SUBTOTALS	6.8	6.4	GRAND TOTAL
	PR	<b>←</b>	•	•	2	•	•	% -	•	•	BUB	•	•	GRA

### PHYSICAL SECURITY EQUIPMENT ARMY PROCUREMENT (\$ IN THOUSANDS)

FUNDS REQUESTED FUNDS BUDGETED

UNINSTALLED

SUBTOTAL **FY98 FY97 EY96 FY98 EY84 EY92 EY93 EY9**1 SETS SYSTEM

1. ICIDS I

SCEG

A8 11 **A8** I 'n

(INCL W/ICIDS I)

4100

000

3<u>900</u>

4400

MDARS INT II

MDARS INT I

တ

50 **MDAR8** INT III ø.

## PHYSICAL SECURITY EQUIPMENT ARMY PROCUREMENT (\$ IN THOUSANDS) (\$ IN THOUSANDS)

CHART C

FUNDS REQUESTED

FUNDS BUDGETED	EY97 EY98 SUBTOTAL	2500		4900 149297	•	5830 82684 2714 26211	16755 209966
UNDS E	FY97	2500		6070	•	4845 2714	13615
	<b>FY96</b>	1000		5770 64837	•	4870 2788	11219 88767 18615 16755
SANU, JED)	<b>EY95</b>			6770	0	2499	11219
(SIN INCUSANDS)	EY92 EY93 EY94 EY95 EY96			8837	3699	2634	11871
Z Ö	<b>FY93</b>			10648	3718	2726 2726	23 23 20
	<b>FY92</b>			780 15010 10648	3822	8801 6201	1569 18311 13369
ED	EY91			34780	3678	6389 4940	41569
UNINSTALLED	SETS	*		800	101	SAFER	ď
N S	SYSTEM	MDARS Ext 1	MDARS EXT II		CHANCE	JSIDDS/CIDS (VTER) SAFER	TOTAL BILINDS
	SX	ø.		ထံ		o i	5

### FUNDS REQ FUNDS BUDGETED PHYSICAL SECURITY EQUIPMENT ARMY PROCUREMENT (& IN THOUSANDS)

CHART D

SUBTOTAL	47126	88786	87.80
EY98	•	12714	
EY97		22000 10548	
EY96	•	22000	
_ EY95	10096		
<b>EY94</b>	12544		0008
EY92 EY93	11167		750
EY92	11169 11167 11169 11167		
EY91	2169		
NO. OF YSTEM INSTALL	۲. ۵	<b>9</b>	90
STEM	SCEGI	2. ICIDS I U/R	SFD8
SY	<del>-</del> -	લં	တ်

116876 80861

15544

2169

TOTAL FUNDS 62

## PM-PSE R&D PRIORITIES

98	ı	•	1	1	Q	i	1	က	1	4	1	Q	ဖ
97	I	_	1	ı	N	1	I	က	1	4	•	I	ſ
96	1	\$	1	1	N	1	_	က	ı	4	•	ı	1
98	1	4	1	N	•	1	_	ŧ	က	•	•	1	•
94	ı	Ŋ	1	თ	ł	-	8	1	4	1	I	1	1
93	1	9	1	4	i	q-	N	1	Ð	1	က	•	•
92	T-	Φ	4	9	1	N	က	1	/	1	ß	1	1
FY 91	~	i	S	ı	ı	က	1	i	1	ı	7	1	
FY						<b>T-1</b>	T-11	<b>T-III</b>	(T-1	(T-II			
PROGRAM	ICIDS-I	DS-II	<b>—</b>	=		ARS-IN	ARS-IN	MDARS-INT-III	DARS-EX	DARS-EX	S-I	S-VII	I-S
<u>a</u>	<u></u>	ICIDS	AS-I	AS-	AS-I	B		S	M	M	BAS-	BAS	LA

# PM-PSE FY 92 RDT&E PRIORITIES

6.3 ICUM (\$K'S) 3865

950

1600

575

100

1500

MDARS-EXT-I

BAS-I

AS-I

AS-II

ICIDS-II

ထ

100

2175

570

# ARMY PSE RDT&E FUNDING STATUS (\$ IN MILLIONS) (THROUGH 31 MARCH 91)

TOTAL	5.483	0	5.483		3.059	1.637	4.696	INCR)	0.746	0.037	0.080	0.783
FY 91	5.223	0	5.223	MAR 91)				(3RD	0.810	0	0.085	0.895
FY 90 C/O F	0.260	0	0.260	THROUGH 31 MAR				REQUESTED/RECEI				
FUNDS RECEIVED	A. OSD	3. OTHER	C. TOTAL 0.260	UNDS OBLIGATED (	A. 6.3	B. 6.4	c. TOTAL	DDITIONAL FUNDS	A. 6.3	B. 6.4		D. TOTAL
F	•	<b>©</b>	O	2. FI		ш	J	3. A		w		لسا

(88%)

### Army Programs Sorted by DOD Value

Program Name	DOD Value
ICIDS-I	80.42
AS-I	74.26
AS-II	73.09
MDARS-INT-I	64.89
BAS-I (SFDS)	63.12
ICIDS-II	61.59
MDARS-INT-II	54.05
MDARS-EXT-I	53.74

U.S. ARMY
DOD Physical Security Master Plan
Equipment Implementation (Appendix C)

۵	# At Issue
O	# Not Implemented
ω	# Implemented
∢	# Required

### MANAGEMENT OPTIONS

0	0	0	0
0	0	0	C
5	ო	8	17
12	ო	8	17
RDT&E Programs	Procurement Programs	SUMMARY ACTIONS	TOTAL

# Implemented (of Column B)Completely Implemented Items: 12Overcome By Events Items: 5

Estimated Completion Dates (of Column C) Not Applicable

### U.S.ARMY

## DOD Physical Security Master Plan Equipment Implementation

Completely Implemented Items

DATE	Dec 1989 Apr 1990	Apr 1990 Apr 1991
REMARKS	<ul><li>a. Army Fielding Plan developed.</li><li>b. Air Force and Navy requirements identified.</li></ul>	<ul><li>a. Air Force and Navy requirements identified.</li><li>b. As program progressed, quantities identified. 40</li></ul>
2	<b>a</b> .	g 5
PAGE	0 1-1	C-1-2
OPTION NUMBER (OR SUMMARY)	<del>.</del> .	<del>1</del> .2
NUMBER, SHORT TITLE OR DESCRIPTION	1. Integrated Commercial Intrusion Detection System (ICIDS)	2. Small Console Equipment Group (SCEG)

zones & 100 each SCEG-J (J-SIIDS upgrade) for 1-100 zones.

each SCEG-I for 64-128

### U.S.ARMY

### DOD Physical Security Master Plan Equipment Implementation

DATE	Mar 1990 .	May 1989
REMARKS	As program progressed, it became more defined & being merged with ICIDS. Most of the work, such as that resuled in SCEG-J, is complete. Program will terminate by the end of FY91.	Sensor technologies such as PVdF, VMD, TMD, FO & Dual Tech are identified.  Coordination with DNA is on-going.
PAGE	C-1-2	Q-1-2
OPTION NUMBER (OR SUMMARY)	<b>1</b> . 8	4.1
NUMBER, SHORT TITLE OR DESCRIPTION	3. Commercial System Interface Devices (CSID)	4. Advanced Sensors (AS)

### U.S. ARMY

### DOD Physical Security Master Plan Equipment Implementation

Complletely Implemented Items (Cont'd)

DATE	Nov 1989
REMARKS	a. Coordination with DNA is on-going. Program redefined Mobile Detection Assessment and Response System (MDARS). DNA
PAGE	C-1-3
OPTION NUMBER (OR SUMMARY)	1.6
NUMBER, SHORT TITLE OR DESCRIPTION	5. Robotic Security Sensor System (ROS3)

b. Phases 1, 2 & 3 defined. Jan 1990

RSS program will merge

with MDARS in FY92.

Jul 1990

JRWG. USAF deferred lead on Exterior MDARS

Formally submitted to

. ပ

### U.S. ARMY

### DOD Physical Security Master Plan Equipment Implementation

Sensor System (FIEPSS)
7. Barrier Application 1.9 System (BAS)

U.S. ARMY
DOD Physical Security Master Plan
Equipment Implementation

DATE	Apr 1991	Mar 1990
REMARKS	Close coordination with USAF and DNA on-going. Formal coordination mechanism within the JRWG established.	Equipments are issued against priorities established by AR 190-13. To address product obsolescence materiel changes such as SCEG-J (known as JPCA) have been initiated.
PAGE	C-1-5	9-1-0
OPTION NUMBER (OR SUMMARY)	1.10	1.12
NUMBER, SHORT TITLE OR DESCRIPTION	8. Tactical Force Protection/SAFER Program	9. Joint-Services Interior Intrusion Detections System (J-SIIDS)

### U.S. ARMY

### DOD Physical Security Master Plan Equipment Implementation

DATE	Apr 1990	Oct 1989
REMARKS	Site Surveys identified specific security requirements and funding. All funding placed into FYDP. Implemented procedures regarding the use of non-standard PSE in the Army require consideration of the ICIDS in the facility construction.	ASA(RDA) appointed DCS DEA, HQ AMC, as the Army Executive Agent for PSE.
PAGE	<del>1</del>	C-1-7
OPTION NUMBER (OR SUMMARY)	1.15	Summary 1 Para 3.
NUMBER, SHORT TITLE OR DESCRIPTION	10. Chemical Demilitarization Facility Security System	11. Establish Single PSE POC

U.S. ARMY
DOD Physical Security Master Plan
Equipment Implementation
Completely Implemented Items (Cont'd)

DATE	Apr 1990
REMARKS	Army PSEAG reviewed & prioritized Army PSE programs.
PAGE	C-1-7
OPTION NUMBER (OR SUMMARY)	Summary 2 Para 3.
NUMBER, SHORT TITLE OR DESCRIPTION	12. Review and Baseline . Army PSE Programs

## U.S. ARMY DOD Physical Security Master Plan Equipment Implementation

Overcome By Events Items

DATE OF DETERMINATION	Oct 1989	Oct 1989	Oct 1989 ams.
REMARKS	Program discontinued.	Program integrated with ICIDS. Close coordination with USAF programs being maintained.	Classified as a survivability product. Dropped from PSE programs. Transitioned to Army &
PAGE	C-1-3	4-1-0	ဂ္ဂ ကို
OPTION NUMBER (OR SUMMARY)	7.5	<del>1</del> .	7. 7. 7.
NUMBER, SHORT TITLE OR DESCRIPTION	1. Ported Coax Interior Senor (PINTS)	2. Automated Entry Control System (AECS)	3. Survivability Overpack Containers (SOC)

6.3 effort in progress.

U.S.ARMY
DOD Physical Security Master Plan
Equipment Implementation
Overcome By Events Items (Cont'd)

DATE OF DETERMINATION	Mar 1991	Feb 1991
REMARKS	Program on hold, likely to be cancelled. RDT&E funds set aside reprogrammed.	Program on hold. Statement of Need cancelled.
PAGE	0-1-8	0 1 9
OPTION NUMBER (OR SUMMARY)	1.13	1.14
NUMBER, SHORT TITLE OR DESCRIPTION	4. Underground Storage Project	5. Maintenance and Assembly Secure Storage (MASS)

Attachment D
Navy Presentation Charts

PHYSICAL SECURITY EQUIPMENT ACTION GROUP
1 MAY 1991

### PHYSICAL SECURITY EQUIPMENT **PROGRAMS** Y>4N VAV

LEOPOLD L. TARGOSZ, JR. CNO (OP-09N1)/NISCOM 24X24

### OUTLINE

\* WSS

RDT&E

- \* WASP
- \* SSA
- \* SPS \* PED
  - 4 \*

### PROCUREMENT AND INSTALLATION

- \* NUCWPNS SECURITY (ASHORE)
- \* NUCWPNS SECURITY (AFLOAT)
  \* ESS INSTALLATIONS/UPGRADES
  - \* MILCON IDS
    - \* MAJOR CLAIMANTS

PHYSICAL SECURITY MASTER PLAN

### PHYSICAL SECURITY EQUIPMENT NAVY RDTEE PROGRAMS (\$ IN MILLIONS)

CHART A

SUBTOTAL	12.200	9.863 17.802	0.870	8.781 14.462	i	0.100	19.514 50.594	70.108
FY97	i I	5.682	1 1	1 1	1	1 1	5.682	5.682
<b>PY96</b>	1 1	6.400	1 1	1 1	1	1 1	6.400	6.400
FY95	ii	200	1 1	0.500	ı	1 1	0.700	6.420
FY94	1 1	2.917	l i	0.800	i	i i	3.7170	6.417
FY93	i 1	3.680	1 1	2.485	ı	1 1	6.165 5.065	11.230
FY92	5.200	3.066	0.525	2.296	ı	1 1	5.887	17.866
FY91	7.000	1 1	0.345 3.355	2.700	ì	0.100	3.045	16.093
	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	l	(6.3) (6.4)	(6.3) (6.4)	
PROGRAMS	. WSS	2. WASP	· SSA	4. SPS	. PED	. PP	SUBTOTALS	GRAND TOTAL
a	H	2	m m	4	υ.	9	Ø	IJ

, E. .

PRIORITIZATION PROGRAM

PP

WSS = WATERSIDE SECURITY SYSTEM
WASP = WATERSIDE ADVANCED SECURITY PROGRAM
SSA = SECURE STRUCTURES ASHORE

SPS = SETPBOARD PHYSICAL SECURITY
PED = PORTABLE EXPLOSIVE DETECTOR

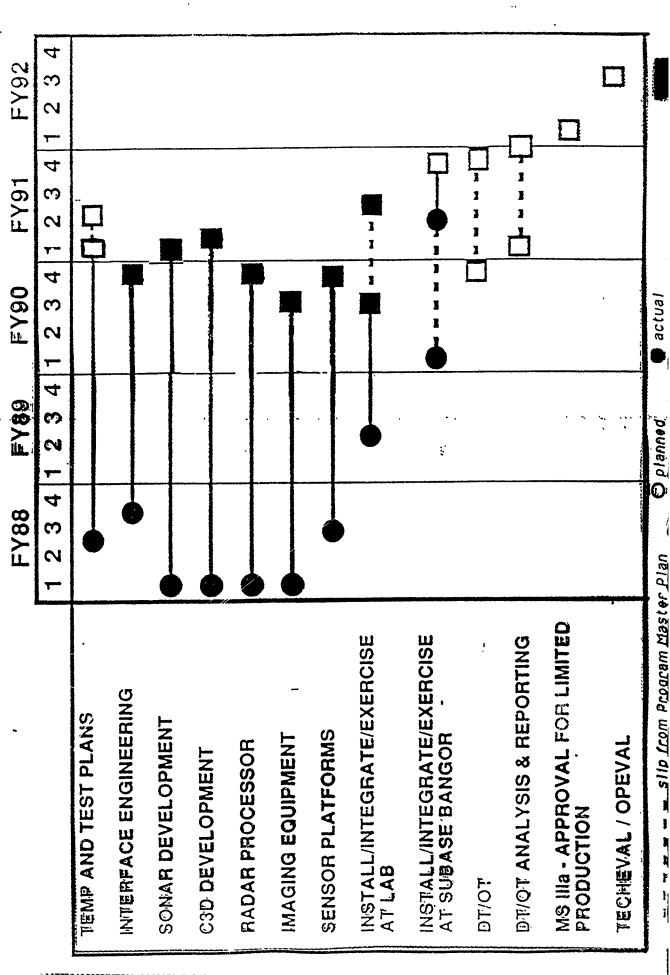
<sup>4.0</sup>M OF FY-92 FUNDS TRANSFERRED FROM WASP TO WSS.

FY-98 FIGURES NOT AVAILABLE.

## WATERSIDE SECURITY SYSTEMS (WSS) PROGRAM

- OR #214-09-87 (13 MAY 88)
- PROTECTS AGAINST INTRUSIONS THROUGH WATER BOUNDARIES
- ★ MANDATED "DEMONSTRATION PROJECT"
- STREAMLINED RDT&E PROGRAM
- \*\* NDI AND TAILORED SCHEDULE
- \* ACAT-IVT DECISION (6 NOV 89)
- PROTOTYPE SYSTEM TESTING BEGUN MAR 91
- TECHEVAL AND OPEVAL IN FY-92

## WATERSIDE SECURITY SYSTEM



NAVY WATERSIDE SECURITY SYSTEM RDTEE PROGRAM

(\$ IN THOUSANDS)

CHART B

PROJECTS		FY91	FY92	FY93	FY94	FY95	FY96	FY97	SUBTOTAL	•
1. WSS BASELINE	(6.3) (6.4)	7000	5200	1 1	1 1	1 1	ii	1 1	1 1	, , , - ,
SUBTOTALS	(6.3) 7000	7000	5200	1 1	1 1	1 1	1 1	1 1	12200	. `
GRAND TOTAL		7000	5200	i	ı	i	i		12200	

WATERSIDE SECURITY SYSTEM \$4.0M OF FY-92 TRANSFERRED FROM WATESIDE ADVANCED SECURITY PROGRAM (WASP) H MSS

### SECURITY PROGRAM (WASP) WATERSIDE ADVANCED

TOR PROMULGATED (3 JUL 90)

WSS UPGRADE

\*\* P3

\*\* EXPANDED CAPABILITIES

\*\* 6.2 EFFORTS

FY-92 START-UP

## NAVY WATERSIDE ADVANCED SECURITY PROGRAM RDT&E

CHART B

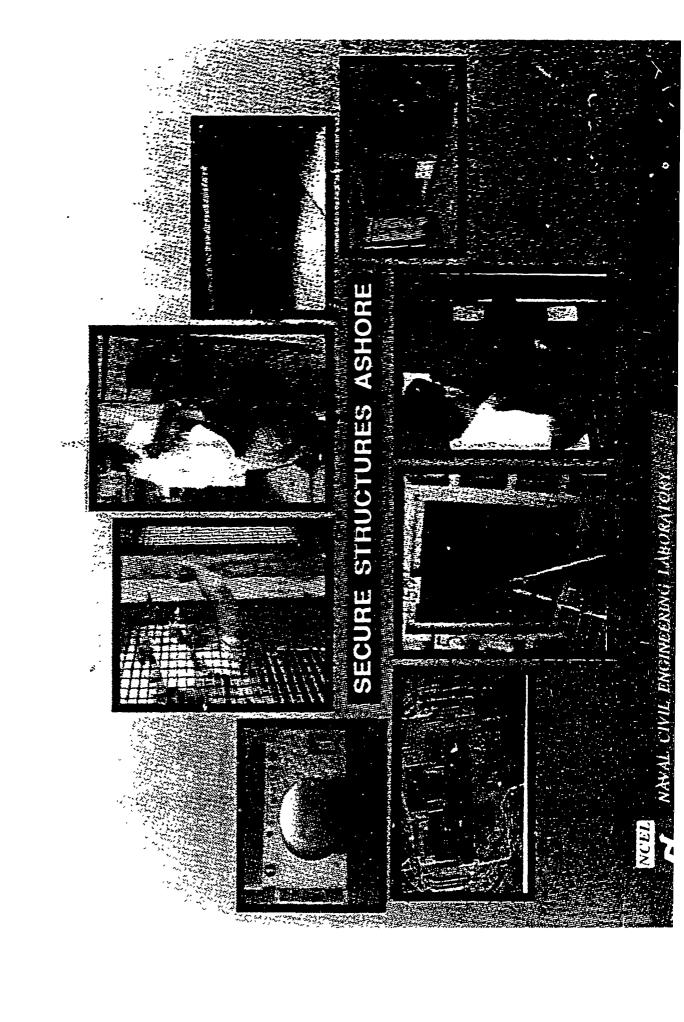
PROJECTS		FY91	FY92	FY93	FY94	FY95	FY96	FY97	SUBTOTAL
1. LB*	(6.3) (6.4)	1 1	1 1	1200	009	2000	200	1 1	1800
2. SI/MBS* (6.3) (6.4)	(6.3) (6.4)	i i	250	006	820	1 1	1 1	1 1	1970
3. SWIDS*	(6.3) (6.4)	1 1	1 1	1 1	200	200	1 1	1 1	400
4. P3I/MU	(6.3) (6.4)	ı	2816	1580	1297	3720	2900	2895	5693 15302
SUBTOTALS	(6.3) (6.4)	1 1	3066	3680	2917	200 5720	6400	2895	9863 17802
GRAND TOTAL		ì	3066	3680	2917	5920	6400	5682	27665

LIGHTWEIGHT BARRIER	SWIMMER ID/MOVABLE BROADBAND SONAR	SHALLOW WATER INTRUSION DETECTION SYSTEM	PREPLANNED PRODUCT IMPROVEMENT/MOBILE UNIT
11	II	11	11
LB	SI/MBS	SMIDS	P3I/MU

<sup>\*</sup> DNA EXPLORATORY DEVELOPMENT

## SECURE STRUCTURES ASHORE (SSA) PROGRAM

- OR #098-09-88 (28 MAY 86)
- PREPARES STD DRAWINGS, MIL—SPECS, ETC., FOR 11 PRODUCTS
  - \*\* ENHANCES STRUCTURAL COMPONENTS RESULTING IN ACCEPTABLE DELAY TIMES
    - DEVELOPS COMPUTER MODELS
- INVESTIGATES/VALIDATES ADDITIONAL REQUIREMENTS



F

## PHYSICAL SECURITY EQUIPMENT

SUBTOTAL	522	391	225	430
FY97	1 1	1 1	1 1	1 1
FY96	: 1	1 1	1 1	1 1
FY95	1 1	i i	1 1	1 1
FY94	1 1	1 1	i t	1 1
FY93	1 1	1 1	1 1	i 1
FY92	169	100	1 06	200
FY91	353	291	135	230
	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)
JECTS	MAGAZINE DOORS	PERSONNEL DOORS	WINDOW BARRIERS	VEHICLE BARRIERS
	FY91 FY92 FY93 FY94 FY95 FY96 FY97	ZINE (6.3)	ZINE (6.3)	ZINE (6.3)

PROJECTS

1.

2

<del>.</del>

2664	099	100	15	100	
i 1	i i	i i	1 1	<b>3</b> 1	
1 1	1 1	1 1	1 1	i i	
i i	1 1	1 1	1 i	1 1	
i 1	1 1	1 1	1 1	l i	
1 1	1 1	1 1	1 1	i i	
1264	_ 260	335	1 1	1 1	
1400	400	100	15	100	
(6.3) (6.4)	(6.3) (6.4)	C(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	
6. SAM	LOCK PROGRAM	ELECTRONIC(6.3) LOCKS (6.4)	STAND-OFF (6.3) PROT* (6.4)	10. POL PROT* (6.3) (6.4)	
•	7.	<b>&amp;</b>	6	10.	

716

1 1

1 1

1 1

257

459

(6.3) (6.4)

GLAZING

5.

SECURITY ASSESSMENT MODEL 11

SAM

PAPERS INITIATION DECISION

## NAVY SECURE STRUCTURES ASHORE RDT&E PROGRAM (\$ IN THOUSANDS)

SUBTOTAL	144	130	141	150	06	870 6030	0069
FY97	1 1	1 1	1 1	ı i	1 1	j 1	i
FY96	1 1	1 1	1 1	1 1	1 1	1 1	t
FY95	1 1	1-1	1 1	1 1	1 1	t i	1
FY94	1 1		1 1	1 1	1 1	1 1	ı
FY93	1 1	1-1	1 1	1 1	1 1	1-1	1
FY92	124	120	131	140	10	525 2675	3200
FY91	20	10	10	10	80	345 3355	3700
	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	
PROJECTS	11. THREAT MODELS	12. SECURITY MAG BOLTWORK	13. UTILITY SYSTEM*	14. TRANSPORT PROT*	15. AIRCRAFT PROT*	SUBTOTALS	GRAND TOTAL

INITIATION DECISION PAPERS

## SHIPBOARD PHYSICAL SECURITY (SPS) PROGRAM

- TOR (25 FEB 85)
- \* OR (DRAFT) RESTRUCTURED
- PROTECTS CRITICAL AND HIGH PRIORITY AREAS OF ALL SHIPS
- \* PROVIDES DETECTION, DELAY AND RESPONSE CAPABILITIES/INFORMATION
- \* USES SNWS PRODUCTS
- \* EMPHASIZES NDI

## NAVY SHIPBOARD PHYSICAL SECURITY EQUIPMENT (\$\frac{1}{5}\$ IN THOUSANDS)

CHART B

PASSIVE MILLIMETER WAVE SENSOR VIDECO CAMERA DETECTION SURVEILLANCE TV SYSTEM PRODUCT ASSURANCE 11 11 VCD MK24 STS MK7 **PMMS** PA

## NAVY SHIPBOARD PHYSICAL SECURITY RUTER PROGRAM (\$ IN THOUSANDS)

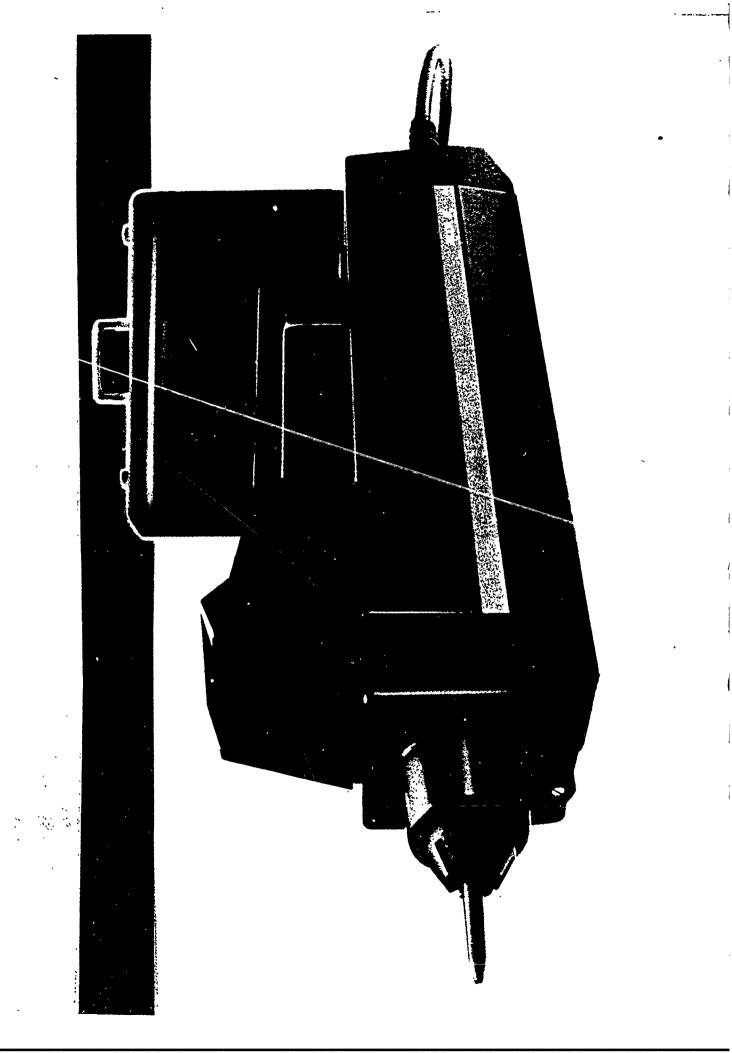
CHART B

SUBTOTAL	50	170	230	170	25	773 2490	630 1367	119	8781 14462	23243
FY97	i 1	1 1	1 1	1-1	ı I	1 1	1 i	1 1	1 1	, ,
FY96	1 1	1 1	1 1	1 1	1 1	1 1	1 1	i i	1 1	1
FY95	1-1	1 1	i i	1 1	1 1	1 1	1 1	1 1	200	200
FY94	1-1	1 1	1 1	1 1	1-1	350	250	1 1	800 2700	3500
FY93	1 1	1 1	1 1	1 1	1 1	300	250 865	1 1	2 <b>4</b> 85 5 <b>06</b> 5	7550
FY92	1-1	120	1 00	70	1 1	300 616	780 140	1 1	2296	6400
FY91	20	20	180	100	25	173 425	100	119	2700 2593	5293
(Q,;	(6.3) (6.4) []	(6.3)	(6.3) (6.4)	(6.3) (6.4) SYS.	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	
PROJECTS (CONT'D)	11. SURFACE ( SEARCH ( RADAR (NDI)	12. AIR ALERF RADAR (NDI)	13. HULL LIGHTS	14. SHIP ACCESS CONTROL SI	15. BISS/SPS/ WSS INTERFACE	16. FZ UPGRADE	17. EXTENDED SECTY NETWORK	18. MSS MK-1 T & E	SUBTOTALS	GRAND TOTAL

# PORTABLE EXPLOSIVE DETECTOR (PED) PROGRAM

- \* DRAFT JSOR (OCT 89)
- \* PROVIDES SECURITY PERSONNEL WITH DETECTION CAPABILITY
- NAVEODTECHCEN TESTS NDI FOR NEAR-TERM USE
- \* JRWG WITHDRAWS JSOR
- \* CURRENT STRATEGY MONITOR PRIVATE SECTOR/ACADEMIA/GOVERNMENT AGENCIES
- \* SEIWG REP ON IACSE SUBCOMMITTEE

:•<del>;</del>



### PRIORITIZATION EFFORT

- C, PSEAG INITIATIVE
- \* JRWG TASK
- \*\* COMPUTER PROGRAM
- \*\* REFINEMENT COMPLETED

# DOD (NAVY) RDTEE PRIORITIZATION PROGRAM (\$ IN THOUSANDS)

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P	į
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SUBTOTAL	100	100	100
FY97	1 1	1 1	ı
FY96	i i	1 1	ı
FY95	1 1	1 1	ı
FY94	1 1	1 1	 I
FY93	1 1	1 1	1
FY92	1 1	1 1	i
FY91	100	100	100
	(6.3) (6.4)	(6.3) (6.4)	
PROJECTS	1. PP	SUBTOTALS	GRAND TOTAL

PRIORITIZATION PROGRAM 11 PP

## NAVY PHYSICAL SECURITY EQUIPMENT RDT&E PRIORITIZATION

RANK	NK PROGRAM NAME	VALUE
•	WATERSIDE SECURITY SYSTEM (WSS)	64.70
0	WATERSIDE ADVANCED SECURITY PROGRAM (WASP)	56.29
М	SECURE STRUCTURES ASHORE (SSA)	55.79
4	SHIPBOARD PHYSICAL SECURITY (SPS)	52.31
Ŋ	PORTABLE EXPLOSIVE DETECTOR (PED)	45.10
ဖ	PRIORITIZATION PROGRAM (PP)	32.04

ESTIMATED 6.2 - 6.3 TRANSITION SCHEDULE DON PHYSICAL SECURITY EQUIPMENT RDT&E

(\$ IN THOUSANDS)

	FY-92	FY-93	FY-94	FY-95	FY-96
LIGHTWEIGHT BARRIER	7	7 1200	009		
PASSIVE MILLIMETER WAVE SENSOR	7	\ 1250	800	200	
SWIMMER IDENTIFICATION / MBS	250	006	820		
SHALLOW WATER INTRUSION DETECTION SYSTEM			۷ 200	200	
$\triangle$ = 6.4 ESTIMATED TRANSITION					
TOTAL	250	3350	2420	700	

DDONPSE

### FY-91 OBLIGATION RATES (lst and 2nd Increments) (\$ In Thousands)

PROGRAM	TOTAL  1st & 2nd  Increments	OBLIGATED	RATE
WSS	5,920	5,328	90%
SPS	4,484	4,035	90%
SSA	3,100	2,945	95%
PP	100	100	100%
TOTAL:	13,604	12,408	91%

Actual third increment of RDT&E funding has not been received.

Per PHONECON with Colonel Evans, 29 April 1991, the third increment is \$2,249K, a reduction of \$240K. Consequently, the actual FY-91 funding for Navy RDT&E will be \$15,853K. This represents an overall reduction of \$443K from the projected \$16,296K control.

As of May 91, and based on the \$15,853K (actual total FY-91 funding), the Navy's obligation rate for FY-91 is 78.2%.

### NAVY PROCHEMENT AND INSTALLATION NOVENS SECURITY (ASFORE) (\$ IN MILLIONS)

CHART C

(Management of Committee					H/1SOO	COST/BUDGETTED			
SYSTEM METERIAL VILLE OF THE STATE OF THE ST	SETS	FY91	FY92	FY93	FY94	FY95	FY96	FY97	SUBIOTAL
1. APC	7	0.5/0.5	1.0/1.0	2.2/2.2	2.2/2.2	1.0/1.0 2.2/2.2 2.2/2.2 1.4/1.4 1.5/1.5	1.5/1.5	i	8.8
2. ALT	23	2.2/2.2	1.6/1.6	1.6/1.6	1.6/1.6	9.1/9.1 9.1/9.1 9.1/9.1 9.1/9.1	1.6/1.6	ı	10.2
3. ORDCOM	16	1.4/1.4	l	1.6/1.6	1.6/1.6	- 1.6/1.6 1.6/1.6 0.6/0.6 1.5/1.5 0.1/0.1	1.5/1.5	0.1/0.1	8.9
TOTAL FUNDS:		4.1/4.1	2.6/2.6	5.4/5.4	5.4/5.4	2.6/2.6 5.4/5.4 5.4/5.4 3.6/3.6 4.6/4.6 0.1/0.1	4.6/4.6	0.1/0.1	25.8

ARMORED LOGISTIC TRANSPORT ORDNANCE COMMENICATION

APC ALIT ORDCOM

= ARMORED PERSONNEL CARRIER

### NAVY PROCIREMENT AND UNSTALLATION NUCAPAS SECURITY (ASSURE) (\$ IN MILLIONS)

CHART D

	NUMBER OF INSTRICTION/	ON/ FY91	FY92	FV93	NDS REQUIRE FY94	FUNDS REQUIRED/FUNDS BUXGRAND	CCTESTED FY96	FY97	SUBIOURL
	1 1/0 5		0 1/1 0	4 1/1 2 6 0/1 E 0 1/1 A	3 1/0 2	171 %	2 1/1 5	2 2	g g / C g L
	00/00		3 1/2 2	# 17:10	9 1/6 E	3 1/6 8	3 7 6 8	2/0 %	27 4/10 2
1.4/1:4			7:5	1.6/1.6	1.6/1.6 1.6/1.6 1.6/0.6	1.6/0.6	1.6/1.5	1.6/0.1	9.4/ 6.8
					-				
4.7/4.1			5.3/2.6	5.3/2.6 7.9/5.4 7.9/5.4 7.9/3.6	7.9/5.4	7.9/3.6	7.9/4.6	7.9/0.1	49.5/22.8

ARMORED PERSONNEL CARRIER ARMORED LOGISTIC TRANSPORT ORDNANCE COMMINICATION 11 H II CRECOM APC PLT

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### NAVY PROCIREMENT AND INSTALLATION NUCKENS SECURITY (APLOAT) (\$ IN MILLIONS)

COST/BUDGESTED

CHART

SUBIOTAL	20.6/20.6	9.3/ 9.3	29.9/29.9
FY97	ı	1	ŧ
FY96	1	3.2/3.2	3.2/3.2
FY95	1.5/1.5	2.7/2.7	4.7/4.7 4.2/4.2 4.2/4.2
FY94	2.2/2.2 1.5/1.5	0.5/0.5 2.0/2.0 2.7/2.7	4.2/4.2
FY93	4.2/4.2	0.5/0.5	4.7/4.7
FY92	6.1/6.7	6.0/6.0	9.2/9.0 0.9/0.9
FY91	0.9/0.9	1	6.0/6.0
NUMBER OF SKITS	174	80	
TYPE OF EQUIPMENT/ SYSTEM	1. PVPCS MK4	2. MSS MKT	TOTAL FUNDS:

= PROJECTED VOICE PORTABLE COMMUNICATION SYSTEM = MAGAZINE SECURITY SYSTEM PVPCS MSS

### NAVY PROCIREMENT AND INSTALLATION NICKENS SECURITY (AFLOAT) (\$ IN MILLIONS)

CHART D

	SUBTOTAL	21.9/20.6	30.6/ 9.3
	FY97	ı	0/2.9
CDCELLED	FY96	1	6.7/3.2
FUNDS REQUIRED/FUNDS BUDGETED	FY95	0/1.5	7.1/2.7
UNDS REQUI	FY94	2.2/2.2	6/0.9 4.3/0.5 2.2/2.0 7.1/2.7
<b>E</b>	FY93	1.4/4.2 '2.2/2.2	4.3/0.5
	FY92	0/6.7	3.6/0.9
F.	E FY91	10.3/6.0 6.	ı
NUMBER OF	PLATFORMS	174	99
/ La Sul Sul Carlo	TYPE OF PAULTHENT/	1. PVPCS MK4	2. MSS MRU

6.7/3.2 9.1/4.2 4.4/4.2 10.3/6.0 9.6/7.6 5.7/4.7 TOTAL FUNDS:

52.5/29.9

6.7/0

PVPCS = PROTECTED VOICE PORTABLE COMMUNICATION SYSTEM MSS = MAGAZINE SECURITY SYSTEM

1. 2887. 1

### NAVY PROCUREMENT AND INSTALLATION ELECTRONIC SECURITY SYSTEMS (\$ IN MILLIONS)

CHART (

Ç	/ III 821 821 632 632		8			COST/BUDGETED				
WEISKS THE C	SYSTEM	SEE	FY91	FY92	FY93	FY94	FY95	FY96	FY97	SUBTOTAL
1. SAS	AS	6	6.9/6.9	3.4/3.4	5.1/5.1	5.5/2.5	5.7/5.7	5.9/5.9	6.2/6.2	38.7/38.7
2. RA	æ	15	3.5/3.5	2.2/2.2	4.7/4.7	0.9/0.9	0.9/0.9	2.0/2.0	1.0/1.0	25.4/25.4
3. AA&E	AGE	88	1.2/1.2	1.9/1.9	2.2/2.2	3.3/3.3	3.4/3.4	3.5/3.5	3.6/3.6	19.1/19.1
4. ¥	WES	7	6.9/0.9	5.5/5.5	8.4/8.4	7.1/7.1	8.6/8.6	15.0/15.0	3.0/3.0	48.5/48.5
5. H	HARBORLIGHT	8	0.3/0.3	2.1/2.1	1.8/1.8	1.2/1.2	1.3/1.3	1.1/1.1	1.9/1.9	10.3/10.3
TOIM	TOTAL FUNDS:		12.8/12.8	15.1/15.1	22.2/22.2	22.2/22.2 23.1/23.1 25.0/25.0	25.0/25.0	28.1/28.1	15.7/15.7	142.0/142.0

= SPECIAL AMMUNITION STURAGE SAS

= READINESS ASSETS

AA&E = ARMS, AMMINITION AND EXPLOSIVES WSS = WATTERSIDE SECIRITY SYSTEM PROGRAM

FY-98 FIGURES NOT AVAILABLE

### NAVY PROCIREMENT AND INSTALLATIONS ELECTRONIC SECURITY SYSTEMS (\$ IN MILLIONS) PHYSICAL SECURITY EQUIPMENT

CHART D

### FUNDS REQUIRED/FUNDS BUDGETED

SXS	SYSTEM EQUIPMENT/ NUMBER OF SYSTEM INSTALLAT	INSTALLATION	FY91	FY92	FY93	FY94	<u>FY95</u>	FY96	FY97	SUBTOTAL
ä	SAS	60	6.9/6.9	3.4/3.4	5.1/5.1	5.5/5.5	5.7/5.7	5.9/5.9	6.2/6.2	38.7/38.7
2.	RA	15	3.5/3.5	2.2/2.2	4.7/4.7	0.9/0.9	0.9/0.9	2.0/2.0	1.0/1.0	25.4/25.4
ü,	3. AA&E	88	1.2/1.2	1.9/1.9	2.2/2.2	3.3/3.3	3.4/3.4	3.5/3.5	3.6/3.6	19.1/19.1
4	WES	7	3.6/0.9	12.5/5.5	11.3/8.4	11.7/7.11	11.9/8.6	18.9/15.0	14.0/3.0	83.9/48.5
5.	HARBORLIGHE	8	0.3/0.3	2.1/2.1	1.8/1.8	1.2/1.2	1.3/1.3	1.7/1.7	1.9/1.9	10.3/10.3
ī	TOTAL FUNDS:	7	15.5/12.8	15.5/12.8 22.1/15.1	25.1/22.2	27.7/23.1	25.1/22.2 27.7/23.1 28.3/25.0	32.0/28.1	26.7/15.7	177.4/142.0

= SPECIAL AMENITION STORAGE SAS

= READINESS ASSETS B

AARE = ARMS, AMMINITION AND EXPLOSIVES WSS = WATERSIDE SECURITY SYSTEM PROCRAM

FY-98 FIGURES NOT AVAILABLE.

## NRVY PROCUREMENT AND INSTRILATIONS MILCON IDS (\$ IN MILLIONS)

CHART

	SUBTOTAL	23.1/21.5	23.1/21.5
	FY97	2.8/2.8	2.8/2.8
	FY96	4.7/4.7	/4.2 5.3/5.3 2.6/2.6 1.9/1.9 4.7/4.7 2.8/2.8
CELLED	FY95	4.2/4.2 5.3/5.3 2.6/2.6 1.9/1.9	1.9/1.9
COST/BUDGETED	F:94	2.6/2.6	2.6/2.6
	FY93	5.3/5.3	5.3/5.3
	FY92	4.2/4.2	4.2/4.2
	FY91	1.6/0.0	1.6/0.0 4.2/
	NUMBER OF	224	
•	TYPE OF BOUTMENT/ PSE SYSTEMS	1. MILCON IDS	TOTAL FUNDS:

## NAVY PROCHEMENT AND INSTALLATIONS MILCON IDS (\$ IN MILLIONS)

CHART

				FUN	S REQUIRE	FUNDS REQUIRED/FUNDS BUDGETTED	CELLED		
TYPE OF BOULDMENT/ PSE SYSTEMS	NUMBER OF BUILDINGS	FY91	FY92	FY93	FY94	FY95	FY96	<u> 1684</u>	SUBTOTAL
1. MILCON IDS	224	1.6/0.0	4.2/4.2	5.3/5.3	2.6/2.6	.2/4.2 5.3/5.3 2.6/2.6 1.9/1.9 4.7/4.7	4.7/4.7	2.8/2.8	23.1/21.5
TOTAL FUNDS:		1.6/0.0	4	5.3/5.3	2.6/2.6	2/4.2 5.3/5.3 2.6/2.6 1.9/1.9 4.7/4.7	4.7/4.7	2.8/2.8	23.1/21.5

## NAVY PROCUREMENT AND INSTALLATION MAJOR CLAIMANTS (\$ IN THOUSANDS)

CHART C/D

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SUBTOTAL	892	96	1	1	ı	Ì	2384	2100	810	1046	1	4690	156
FY97	1	1	1	t	i	i	200	100	i	200	ı	1001	1
FY96	244		i	ı	1	1	300	200	1	300	1	1000	1
FY95	1	i	1	ı	1	i	300	200	ı	l	1	300	
FY94	172	ı	1	1	1	1	204	550	l	255	1	888	i
FY93	390	1	ı	l	1	1	168	200	i	92	1	.,	ı
FY92	ı	96	l	i	1	l	386	250	810	199	1	770	1
FY91	98	i	1	l	1	ı	826	ı	•	•	1	406	156
COMMIND	CND (OP-09EP)		NAVAIR	NAVSUP	OSSE '	SPAWAR	LANDELL	NAVETR	CNET	10. NAVIBLOOM	11. NAVOCEAN	12. PACFIE	13. NAVRESFOR
8		5	'n	4	5.	9	7.	<b>&amp;</b>	9	Ħ	H	H	<del>, -</del>

TOTAL FUNDS:

	FY91	FY92	FY93	FY94	FY95	FY96	FY97
SNAS ISIZA							
PVPCS MK	z.	1.1	<b>©</b>	₹.	4.	4,	4.
MSS MICL	1	9		1.2	1.2	1.3	1.3
ESS	3.0	5.0	5.0	5.0	5.0	5.0	5.0
LOCK PROGRAM	<b>e</b> ,	e.	1.0	1.0	6.	<b>ω</b> ,	<b>œ</b> .
TOTAL FUNDS	4.4	7.6	7.5	7.6	7.1	7.1	7.1

. .

### NAVY

### DoD Physical Security Master Plan Equipment Implementation

-	MANAGEMENTOPTIONS	RDT&E Programs	Procurement Programs	SUMMARY ACTIONS	TOTAL
A # Required		2	9		11
pejueweldwi #		5	9	-   -	. 11
C D Wotimplemented # Attistue		-			
D V V Issue					

Estimated Completion Dates (of Column C)

50% Completion Date
75% Completion Date
100% Completion Date

Note: Colurans B+C+D = A

NAVY

## DOD PHYSICAL SECURITY MASTER PLAN

### EQUIPMENT IMPLEMENTATION

### COMPLETELY IMPLEMENTED ITEMS

DATE	THRU FY-97	THRU FY-94	OCT 90	JAN 90	THRU FY-92	ONGOING	ONGOING	ONGOING	ONGOING	NA	ONGOING
REMARKS	FUNDING PROGRAMMED	RESTRUCTURED (INCL SNWS)	COMBINED UNDER SPS	JRWG DECISION; IACSE REP	FUNDING PROGRAMMED	FUNDING SUPPORT	MINIMAL SUPPORT	FUNDING PRIORITY	HIGH VISIBILITY EFFORT	NON-ACAT	A-D GUIDE FOR OPN DISTRIBUTION
PAGE	C-2-1	C-2-1	C-2-2	C-2-2	C-2-3	C-2-3	C-2-4	C-2-4	C-2-4	C-2-5	C-2-5
OPTION NUMBER (OR SUMMARY)	2.1.1	2.1.2	2.1.3	2.1.4	2.1.5	2.2.1	2.2.2	2.2.3	2.2.4	2.2.5	2.2.6
SHORT TITLE	1. WSS	2. SPS	3. SNWS	4. PED	5. SSA	6. WSS	7. SPS	8. SNWS	9. PED	10. SSA	11. PERS & COMD SUPPORT

### WATERSIDE SECURITY SYSTEM (WSS)

GENERAL DESCRIPTION: The WSS program received renewed impetus due to Congressional interest in the mid 80s over security at critical naval facilities. This interest was reflected in FY 88-92 Defense Guidance which required deployment of waterside security systems at strategic submarine bases. The WSS will provide a level of protection currently unavailable against intrusions through the water boundaries of Department of Defense installations. The WSS will detect targets, classify and localize threats, assess intrusions, and communicate necessary information to a user friendly command, control, and communication display (C3D). The system's major components will include a fully integrated C3D, sonars for swimmer dtection, radars for fast boat and sneak craft detection, CCTV and FLIR for surface assessment.

STATUS AND SCHEDULE: During March 1991, the WSS underwent integrated testing (DT-IIA) at Kaneohe Bay, HI with very encouraging results. Sonars and radars meet all requirements; however, software upgrades are needed in order to reduce the complexity of the C3D. At the conclusion of DT-IIA, the prototype system was packed and transported to SUBASE Bangor where it will under go DT-IIB/OT-IIA during the last quarter of FY-91. The WSS is scheduled to reach Milestone IIIA, Approval for Limited Production in the first quarter of FY-92. Milestone IIIB, Full Rate Production should be achieved first quarter FY-93, after OPEVAL in late FY-92. Installation of the first production system will be completed first quarter FY-94 at SUBASE Bangor.

PRODUCTION PLANNING: The cost to install a WSS will vary with the physical layout and operational requirements of each site. The average cost to procure and install a WSS will be approximately \$6.2M. Within the current future years defense plan, i.e., FY-92 through FY-97, the Navy has programmed funding for six systems.

PROBLEMS: Unforeseen technical difficulties have caused the WSS to slip more than a year and have placed additional funding demands on the program. OPEVAL requirements are adding approximately \$1.0M to the RDT&E effort. In FY-92, the program will experience a \$4.0M shortage which will be made up with funds transferred from the Waterside Advanced Security Program RDT&E effort. As the Navy continues to experience funding cuts across the board, support by resource sponsors appears to be waning.

### WATERSIDE ADVANCED SECURITY PROGRAM (WASP)

GENERAL DESCRIPTION: The WASP addresses preplanned product improvements to the baseline Waterside Security System (WSS) and introduction of equipment/technology providing enhanced system features. The WSS has several limitations which will need to be resolved to make the Navy's waterside program more cost effective. To resolve some of these recognized shortcomings, a preplanned product improvement/additional capabilities effort has been initiated. Several 6.2 RDT&E programs have been undertaken by the Defense Nuclear Agency (DNA) in support of the Navy's follow-on program. A majority of the 6.2 programs are scheduled to be transitioned to the Navy within the next two years.

Due to the fluid nature of the threat, the SSBN continuity of operations community's needs, and budget reductions limiting the number of proposed WSS permanent installations, a system capable of being shipped to areas on a moment's notice is needed. WASP will provide a rapidly deployable system. Additionally, under the original WSS effort, delay was included in the program. However, no inexpensive solution was available/developed. DNA is pursuing two projects which will significantly increase the delay and response capabilities of the baseline system. These systems are the lightweight barrier system and Shallow Water Intrusion Detection System.

STATUS AND SCHEDULE: A Tentative Operational Requirement (TOR) was promulgated by OP-91 on 3 Jul 90. COMNAVSEASYSCOM is preparing a Development Options Paper. RDT&E under the WASP will be initiated in FY-92 and will continue through FY-97.

PRODUCTION PLANNING: Total acquisition cost of WASP will be approximately \$24M. Current planning projects the need for five rapid deployment systems and the enhancement of at least twelve operational WSS sites.

PROBLEMS: A shortage of approximately \$4.0M is projected for WASP as a result of transferring \$4.0M of FY-92 funds from WASP to WSS. The Navy is hoping to complete the program without additional funding. However, such funding may be required into FY-98.

### SECURE STRUCTURES ASHORE (SSA)

GENERAL DESCRIPTION: In response to terrorism, unconventional warfare and other threats to high value/critical Navy shore based assets and the documented vulnerabilities of most shore based structures, the need exists for more secure structural components (locks, doors, and barriers) that will provide delay time against increasingly sophisticated and powerful hand and thermal tools as well as explosives. Accordingly, the Navy promulgated Operational Requirement #098-09-88, Secure Structures Ashore, on 28 May 1986.

The Secure Structures Ashore Program is a non-acquisition program that covers the development of test validated data required for the preparation of Standard Drawings, NAVFAC Guide Specifications, MIL-Specs and FED-Specs that will be used to procure structural components with MCON funds during construction or with O&MN funds during retrofit. Results will be buildings/facilities that will provide up to fourfold increase in delay times with potential saving of \$50M a year in losses.

Drawings/data are being developed related to the following products:

- High Security Magazine Door System standard design drawings and specifications for doors that provide a minimum of 20 minutes forced entry resistance to hand, power, and thermal attacks and a single explosive attack where linear shaped charges are used (i.e., a one time explosive of one or more linear shaped charges exploded simultaneously). Design will increase forced entry penetration time from under 2 minutes to 20 minutes or more.
- Personnel Door Systems MIL-Specs, Drawings, and NAVFAC guides specification for doors that provide 1-, and 4-, minute delay times against various threat levels up to and including power and thermal tools and blast loads. Doors will have equivalent penetration resistance as wall construction mandated for secure facilities.
- Window Barrier System MIL-Specs, drawings, and NAVFAC guides specification for windows that provide 1-,4-, and 15-minute delay times against various threat levels up to and including power and thermal tools and blast loads. Windows will have equivalent penetration resistance as wall construction mandated for secure facilities.
- Vehicle Barriers test validated criteria and procurement specifications to resist 10,000 pound vehicle carrying 1,000 pound of equivalent TNT traveling at 15 m.p.h. and 50 m.p.h.

- Window Clazing test validated criteria and design guidance to resist various levels of ballistic and forced entry attacks and blast over pressures.
- Security Assessment Models computer application program for assessing the security levels of bases, identifying optimum upgrade options and optimizing use of existing resources.
- High Security Padlock procurement package that will provide more forced entry attack resistance at comparable or less cost than is provided in present DOD padlocks. Fabrication design specifications will enable many manufacturers to produce the padlock and will reduce procurement time and effort. It will replace current high and medium security padlocks.
- Electronic Lock procurement specifications for commercially available hardware that satisfies Navy penetration resistance requirements for use on low, medium, and high security doors.
- POL Protection, Treat Model, Secure Magazine Door Boltwork, Secure Utility Systems, Transportable Protection, Standoff Protection, etc. - decision reports on need for test validated designs.

STATUS AND SCHEDULE - All projects will be completed in FY-93. Recommendations resulting from the Decision Reports will be used for a follow-on program, if necessary.

PROBLEMS - None

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### SHIPBOARD PHYSICAL SECURITY (SPS)

GENERAL DESCRIPTION: SPS addresses physical security equipment and measures used to protect U. S. Navy ships against unauthorized intrusion and attack from swimmers, small boats, and light aircraft. In FY-91, in order to eliminate duplication of effort and achieve savings in RDT&E expenditures, the Shipboard Nuclear Weapons Security (SNWS) Program was combined with SPS. This coordinated effort will ensure eommonality of security equipment used on conventional and nuclear weapons capable ships.

The SPS system will be modular in form and configured to improve the security posture on selected vessels in times of increased threat. The single most critical issue is the adaptation of land-based equipment for shipboard use. Non-developmental Items (NDI) will be used whenever possible. When required, SPS equipment will be more rugged for shipboard use.

The resulting SPS components should be effective against peacetime threats and should augment/complement the ship's existing self defense capabilities against wartime unconventional threats. SPS will be developed for use on all Navy ships. The program is being developed so that the fleets will be able to select individual components as needed without a requirement to choose or procure the total package.

STATUS: A revised SPS Operational Requirement (OR) has been drafted and is currently in review. The MMS will be subjected to final OPEVAL in May 1991. Results are expected in July 1991.

PRODUCTION PLANNING: System outfitting will vary by ship class and area of deployment. Certain elements of the system will be provided to the fleets to be placed aboard vessels prior to deployment. The Navy estimates a requirement for 300 systems. Total acquisition cost of SPS will be approximately \$255 million.

<u>PROBLEMS</u>: Lack of an approved OR and the shrinking resource situation creates the possibility for waning of support follow-on funding for procurement and installation.

### PORTABLE EXPLOSIVE DETECTOR (PED)

GENERAL DESCRIPTION: On 13 July 1989, the Joint Requirements Working Group (JRWG), under the chairmanship of the Navy, met to discuss a Statement of Need (SON) for PEDs submitted by the Air Force and develop a Draft Joint Services Operational Requirement (JSOR) for PEDs. In accordance with DOD Directive 3224.3, the Navy, as the lead service for operational PED equipment, tasked the Naval Explosive Ordnance Disposal Technical Center, (NAVEODTECHCEN), Indian Head, MD to evaluate the performance of PEDs under laboratory and field conditions.

In December 1989, after extensive testing, NAVEODTECHCEN reported that commercially available PEDs are limited in performance with respect to detecting a range of explosives, operating environments, and maintainability. The following recommendations were made:

- Do not field currently available commercial PEDs.
- Continue use of explosive detecting dogs.
- Continue investigation of near-term and long-term PED technologies.

STATUS AND SCHEDULE: The Navy continues to monitor private industry, academia, and other federal agencies in the area of PED development. A Security Equipment Integration Working Group member, representing DOD, has become a member of the Interagency Advisory Committee for Security Equipment Subcommittee on Contraband Detection.

PRODUCTION PLANNING: N/A

PROBLEMS: N/A

### PRIORITIZATION PROGRAM (PP)

GENERAL DESCRIPTION: Each budget cycle, the Military Departments request funding for new and ongoing 6.3/6.4 RDT&E programs from DOD. DOD must determine the relative value of each proposed program based on overall DOD needs, probability of success, return on investment, and a host of other factors. Historically, funding for PSE RDT&E programs has been subjective with no systematic way of comparing the relative value of a given program. Accordingly, an objective method for determining priority of programs was sought under Navy management.

The PP is intended to provide a means whereby a rank-ordering process, and thus the allocation of funds, can be accomplished in an objective manner. This is done based solely on evaluation of each proposed program against a set of standard criteria. The PP is a software program relying on an algorithm consisting of several mathematical equations linked together. At certain points, digital logic is used to determine which equation is to be applied.

STATUS AND SCHEDULE: The PP effort was initiated in FY-90 and will be completed in FY-91. PP software version 2.0 (with instructions) has already been distributed to all services. Software is being upgraded and version 2.1 is expected no later than September 1991. The DOD software package will differ slightly from that of the Services. It will be able to combine and prioritize all DOD RDT&E programs.

PRODUCTION PLANNING: Each Service and DOD (ODDR&E/P&R) will receive version 2.1 of the PP software and a user's manual. Additionally, a master copy will be provided.

PROBLEMS: No problems have been encountered to date.

### PROCUREMENT AND INSTALLATION PHYSICAL SECURITY OF NUCLEAR WEAPONS (ASHORE)

GENERAL DESCRIPTION: This program is intended to provide for the timely procurement and deployment of physical security systems for the protection of nuclear weapons ashore. Requirements for this program are established by the Office of the Deputy Under Secretary of Defense (Security Policy). The implementing instruction in the Navy is OPNAVINST C8126.1, "NUCLEAR WEAPONS SECURITY MANUAL." The current thrust is to provide armored personnel carriers, armored logistic transports, and secure communications equipment.

### ARMORED LOGISTIC TRANSPORTS (ALT)

ALTs are procured to replace the container vehicles currently used to provide armor protection for nuclear weapons during onstation movement. The primary development activity is Naval Weapons Support Center, Crane, IN.

STATUS: Navy is using an Air Force contract to purchase K-loaders.

PROBLEMS: The operational concept for the ALTs currently require the K-Loader to load the weapon(s) into the unit. Alternatives are being explored to find a cheaper and more efficient means of loading.

### ARMORED PERSONNEL CARRIERS (APC)

The APC is procured to provide protection for reaction forces from small-arms fire.

STATUS: Navy is using an Army contract to purchase APCs.

PROBLEMS: The APCs are purchased in limited numbers when compared to other vehicles used by the DOD. This makes them very costly, and they require unique ILS plans (which increases their life-cycle cost).

FUTURE APPROACH: We are exploring alternatives to using conventional APCs. If a standard vehicle can be hardened and meet all operational/safety considerations, it may be more cost effective.

### SECURE COMMUNICATIONS EQUIPMENT

Ordnance Communications (ORDCOM) provides complete, dedicated communications systems for security personnel. The system consists of hand-held, mobile, and fixed base stations equipment with Data Encryption Standard voice protection.

STATUS: Information on specific sites receiving ORDCOM equipment is available from OP-09N1.

### PROCUREMENT AND INSTALLATION PHYSICAL SECURITY OF NUCLEAR WEAPONS (AFLOAT)

GENERAL DESCRIPTION: This program addresses a wide range of measures, both hardware and procedural, needed to better protect our ships. Current focus and priority are directed to mitigating the vulnerability of nuclear weapons stored aboard ships to unconventional threats (terrorists, radical groups, disaffected crew members), and to meeting the requirements of OPNAVINST C8126.1. DEPSECDEF memo of 2 June 1988 and SECNAV memo of 18 October 1988 mandate that resources for Shipboard Nuclear Weapons Security be identified to complete program requirements by the year 2000. The present procurement and installation effort consists of two shipboard systems: the Protected Voice Portable Communication System (PVPCS) MK4 and the Magazine Security System (MSS) MK1.

### PVPCS MK4

The PVPCS MK4 provides a dedicated and digitally encrypted means for communications for ship's security personnel during normal operations and during security alerts. It consists of hand-held transceivers, supporting components, and permanently mounted equipment, e.g., antenna strung throughout the vessel, repeaters and combiners. The PVPCS is designed to provide point-to-point coverage throughout vital areas of the ship. It operates in a continuous mode in any ship operating state.

STATUS AND SCHEDULE: Initial Operating Capability (IOC) was achieved 30 July 1989. Thirty seven (37) PVPCS shipboard installations have been completed to date. A total requirement of 302 installations is planned. The Navy currently has approximately 89 systems in inventory and dependent on ship availability is installing them.

PROBLEMS: Anticipated OPN budget cuts could drastically slow down rate of installations. This program has necessary installation funding from the resource sponsors to complete the program by FY-95. Initial round of budget cuts has delayed procurement through FY-97. Further anticipated budget cuts could delay the final installations past the year 2000.

FUTURE APPROACH: Attempt to front load this program with necessary OPN funding to complete installations by FY-95.

### MSS MKl

The MSS MKl is a below deck security system designed for the protection of nuclear weapons carried on nuclear capable/certified surface ships. It consists of the following equipment: Balanced Magnetic Switch, Infrared Motion Detector, Audible Alarm, Emergency Shutoff Unit, System Indicator Unit, Remote Power Enclosure, Local Alarm Controller, Junction Box, Remote Indicator Unit, and the MK6 MOD 1 Shipboard Internal Locking System Module.

STATUS: MSS MKl is undergoing additional operational testing. An earlier Operational Evaluation surfaced several problems. There is a total requirement of approximately 153 systems to be installed during the period FY 91-98.

PROBLEMS: The MSS MK1 production and installation schedules are geared to satisfy DEPSECDEF and SECNAV guidance to provide an acceptable level of physical security for nuclear weapons capable surface ships by the year 2000. Pending budget cuts make attainment of this goal impossible.

FUTURE APPROACH: Attempt to protect OPN dollars to achieve completion of all installations by the year 2000.

### PROCUREMENT AND INSTALLATION ELECTRONIC SECURITY SYSTEMS (ESS)

GENERAL DESCRIPTION: The ESS Program, formerly referred to as the Remote Sensor Systems for Physical Security (RSSPS) Program is the key facilities program essential to providing necessary levels of physical security to protect Navy assets. With continuing worldwide terrorism and decreases in fiscal resources, effectiveness and efficiency imperatives mandate that the highest priority be afforded to security programs through centralized management with dedicated resources. Navy ESS includes intrusion detection, assessment, and automated entry control for physical securicy. Major categories/subelements of the program are as follows:

Special Ammunition Storage (SAS) - integrates interior and exterior sensors and CCTV systems at nuclear weapons storage sites.

Readiness Assets (RA) - includes intrusion detection, assessment, and access control at the following types of critical Navy activities:

Naval Air Stations Naval Stations Naval Shipyard and Repair Facilities Naval Communication Stations Naval Support Activities

Arms, Ammunition and Explosives (AA&E) - provides interior sensors (and tamper alarms on magazines, e.g., AIBs) for conventional munitions and weapons.

Waterside Security System (WSS) - addresses the need for physical security measures to protect DOD facilities and critical assets against waterborne intrusions. The system will be primarily composed of non-development items, e.g., radars, thermal and visual imagers used to detect and assess high and low speed boats and surface swimmers. Two major components/ subsystems (a sonar for underwater swimmer detection and classification and a command, control, and communication display that will provide integration and control of WSS elements) are being developed. The system is being designed to interface with DOD Base Installation Security System equipment/systems.

Harborlight - supports the White House Military Office. Two locations have been identified for ESS/upgrade.

### STATUS AND SCHEDULE:

SAS - security upgrades were completed at three sites this fiscal year - see attached schedule for number of future installations.

- RA eight sites are currently under contract see attached for current schedule.
- AA&E three sites, NAS Whidbey Island, WPNSTA Yorktown and NAVSTA Roosevelt Roads had physical security upgrades completed during FY-90 see attached for current schedule.
- WSS system is presently in full scale development. NAVSEA (Code 6632D) is the RDT&E Program Manager and NAVOCEANSYSCEN Hawaii (Code 513) is the Technical Direction Agent. Technical and Operational Evaluations (TECHEVAL and OPEVAL) and the Milestone IIIA decision are scheduled to occur in FY-92. Initial Operating Capability (IOC) of full-up production system is scheduled in FY-94. Anticipated rate of production/installation is approximately two systems per year see attached schedule. The first systems will be installed at strategic submarine bases.

Harborlight - Delivery orders on an existing contract are in place. Installation of systems at both sites to be completed during FY-91.

### PROBLEMS:

- SAS recurring budget restraints result in sites being deferred to out-years.
  - RA available MCON funds determine site schedules.
- AA&E priority of SAS and high priority/special projects have impacted and will continue to affect installation of systems.
- WSS the decision to have the WSS retain its Acquisition Category IV designation has imposed additional testing requirements (i.e., OPEVAL). In addition, technical problems with developmental items may cause the RDT&E schedule to slip further. Total impact may cause over one year delay.

### FUTURE APPROACH:

 $\frac{WSS}{I}$  - try to obtain Approval for Limited Production decision in early FY-92 in order to attain FY-94 IOC.

### ESS SCHEDULE

### SAS

<u>FY-91</u> <u>FY-92</u> <u>FY-93</u> <u>FY-95</u> <u>FY-95-97</u> 2 Sites 1 Site 2 Sites TBD

RA

<u>FY-91</u> <u>FY-92</u> <u>FY-93</u>

NAVSTA Rosy Rds NAS Sigonella CINCLANTFLT Hqtrs NSA Naples SSC Great Lakes NAF Mayport

NAS Cubie Pt Transmitter Site

<u>FY-94</u> <u>FY-95-97</u>

SUBASE N. London TBD

WPNSTA Yorktown NAS Corpus Christi NAVSTA Roosevelt Roads

### AA&E

<u>FY-91</u> <u>FY-92</u>

NAS Brunswick (C)

NAVSWC Dahlgren

NAS Bermuda (C)

NAVSTA Adak

NAS Alameda (C)

NAVSTA Guantanamo Bay (C)

NAVSTA Canal Zone

NAVMAG Lualualei (C)

NAS Key West

NAVSTA Rota (C)

NAS Cecil Field

NAS Cuantanamo Bay

NAVSWA Mayport

NAVSTA Rota (C)

NAS Guantanamo Bay

NAVSTA Mayport

NAVWPNSUPCEN Crane

NAVPHIBSCL San Diego

FY-93 FY-94

NAVSTA Norfolk NAVORD White Sands

NAVSUBSUPFAC New London NAS Miramar

NSWC White Oak

NAS Norfolk

COMEODGRU Two Fort Story

NAS Norfolk COMEODGRU Two Fort Story

NAS Key West
NAS Agana
NAF El Centro

NAS Lajes NAVAIRTESTCEN Patuxent River

NAS Norfolk NAS Oceana NAS Signonella CBC Gulfport

NAVSHIPYD Mare Island

### WSS

<u>FY-91-FY-93</u> <u>FY-94</u> <u>FY-95</u>

PROTOTYPE SUBASE Bangor SUBASE New London

SUBASE Kings Bay

FY-96 FY-97 FY-98

SUBASE San Diego NAS North Island TBD

NAVBASE Norfolk

### PROCUREMENT AND INSTALLATION MILCON IDS

GENERAL DESCRIPTION: Program provides Interior Intrusion Detection System (IDS) for Military Construction (MILCON) projects. Without IDS, these projects will not be complete and usable, and the gaining activity will not be able to occupy the facility. IDS is required in MILCON projects involving classified material, sensitive compartmented information facilities, special programs, and assets of high dollar value and long lead time replacement.

### MCON IDS SCHEDULE

FY-91	FY-92	FÝ-93	FY-94
22 Sites	14 Sites	2 Sites	23 Sites
FY-95	FY-96	FY-97	FY-TBD
29 Sites	5 Sites	6 Sites	123

PROGRAMS: Due to dynamics involved with MILCON program, i.e., "instability of MILCON process", it is difficult to specify the actual number projects required by IDS.

Attachment E

Marine Corps Presentation Charts

## USMC ELECTRONIC SECURITY SYSTEMS

### OVERVIEW

Physical Security Structural Upgrade Program (PHSSUP)

Arms, Ammunition and Explosives Intrusion Detection System (AA&E IDS)

Automated Entry Control System (AECS)

HMX-1 Security Enhancements

# USMC ELECTRONIC SECURITY SYSTEMS (ESB)

### DESCRIPTION SHEET

# Physical Security Structural Upgrade Program (PHSSUP)

Minor construction funding used to upgrade armories & magazines,

Description:

Purpose:

Enhances physical security posture.

address other physical security requirements.

Ongoing program.

Completion Date: Start Date:

Planned Applications:

Continuous reevaluation of physical security Ongoing program.

and

posture.

Presently appropriated USMC-wide. AA&E and other critical facilities. approximately \$1.5 million O&MMC (R-2) annually.

# DESCRIPTION SHEET (CONTINUED)

Ammunition and Explosives Intrusion Detection System (AA&E IDS)

Enhances physical security posture, while returning Marines to perform Fleet Marine Force duties. Purpose:

State of the art, expandable, non-developmental initiative (NDI)

Foundation for totally integrated ESS system. IDS system.

June 1987.

Start Date:

Description:

February 1994. Completion Date:

intelligence facilities, financial activities, warehouses, and other USMC will POM for follow-on initiative to add classified material control centers, special compartmentalized critical facilities in the future. AA&E sites. USMC-wide. Planned Applications:

# DESCRIPTION SHEET (CONTINUED)

# Automated Entry Control System (AECS)

allowing security personnel to Enhances physical security posture, a perform more critical security tasks. Purpose:

Description:

card readers, personal identification number (PIN) pads, lighting Automated access control of restricted areas using magnetic strip turnstiles, vehicle gates, and closed circuit television (CCTV). Integrates with the AA&E IDS aboard Marine Corps Air Stations to allow for centralized control of restricted entry and egress.

February 1990.

August 1992.

Completion Date:

Start Date:

Future possible applications at industrial/warehouse areas located aboard Initial installation at Marine Corps Air Stations. USMC-wide. Planned Applications:

USMC installations.

# DESCRIPTION SHEET (CONTINUED)

# HMX-1 Security Enhancements

Description:

Increases protection of presidential aircraft (HMX-1) by deterring, delaying, detecting, and denying unauthorized entry. Purpose:

television (CCTV), automated entry control, and control and display barriers and electronic security system (ESS) applications, which includes an intrusion detection system (IDS), closed circuit A comprehensive physical security program consisting of physical equipment.

Start Date: June 1988.

Completion Date: December 1990.

Planned Applications: MCAF Quantico.

# PHYSICAL SECURITY EQUIPMENT

## USMC PROCUREMENT (IN MILLIONS)

<u>Subtotal</u>	7.200 (Note 1) /7.200	9.322 (Note 3) /5.182	4.385 (Note 3) /4.129	.564	21.471 /17.075
FY 98	.900				.900
FY 97	.900		671./		1.646 1.775 .900 .900 /1.646 /1.662 /1.679 /.900
FY 96	.900		.875		1.775 /1.662
FY 94 FY 95 FY 96 FY 97 FY 98 (COST/BUDGETED)	.900		.746 /.746		1.646 /1.646
FY 94 FY 95 (COST/BUDGETED)	.900		.730		.900
FY 93	.900	1.462 /1.462 2)	2.340 1.461 /2.340 /1.205		3.823 /3.567
FY 92	.900	• •	2.340/2.340		8.280 /8.280
FY 91	006./	2.820 5.040 /2.820 /.900 (Note	.840	.564	5.124 /5.124
NUMBER OF SETS	54 (7/YR)	32	o.	1	
TYPE OF EQUIP/SYSTEM	Physical Security Structural Upgrade Program	AA&E IDS	AECS	HMX-1 Security Enhancements	TOTAL FUNDS

### NOTES:

Productivity Investment Fund proposal to complete this AA&E IDS portion is approved. Any funding for "add-on" electronic security systems or other expansion in scope to be submitted as POM initiatives. Operations and Maintenance, Marine Corps (O&MMC) Funding

# PHYSICAL SECURITY EQUIPMENT

## USMC INSTALLATION COSTS (IN THOUSANDS)

TYPE OF FOILTP/SYSTEM	NUMBER OF SETS	FY 91	FY 92	FY 93	FY 94 (COST/B	FY 94 FY 95 (COST/BUDGETED)	FY 96	FY 97	FY 98	Subtotal
Physical Security Structural		009/	009/	009/	009/	009/	009/	009/	009/	4800 /4800
Upgrade Program AA&E IDS	32	1880 /1880	3360 /600 (Note	800 /800 2)						6040 (Note 3) /3280
AECS	Ø	560 /560	1560 /1560	08/	80 /80	80 /80	80			2460 (Note 3) /2460
HMX-1 Security Enhancements	, 1	376 /376								376 /376
TOTAL FUNDS		3416 /3416	5520 /2760	1480 /1480	680 /680	089/	680 /680	009/ 009	009/	13656 /10896
NOTES: PHS:	PHSSUP uses a continuous rotation cycle of all USMC installations to reevaluate	continuou securit	ıs rota( / postu)	tion cy re.	cle of	11 USMC	insta]	.lations	s to re	evaluate
2 Fro 3 Any to	Froductivity Investment Fund proposal to complete this AA&E IDS portion is Froductivity Investment Fund proposal to complete this AA&E IDS portion is Any funding for "add-on" electronic security systems or other expansion in to be submitted as POM initiatives.	westment "add-or as POM	Fund   n" electinitia	nd proposa lectronic tiatives.	l to col security	nplete t / system	his AA6 Is or ot	ther exi	portion pansion	is approved: in scope

# UNITED STATES MARINE CORPS

DOD Physical Security Master Plan Equipment Implementation Completely Implemented Items

Date	December 1982	June 1987	February 1990
Remarks	An ongoing program to ensure AA&E storage facilities are in compliance with directives. Program is funded by O&M funds.	Essentially an ongoing program to install a uniform, state of the art IDS system at all USMC AA&E sites; current capability initiative planned to supersede AA&E IDS to install IDS at other critical facilities.	Formerly "Flight Line Security" Program; current capability initiative planned to supersede AECS to install automated access controls at other critical facilities.
Page	C-4-1	C-4-1	C-4-1
Option Number (or Summary)	Par 4.2.1	Par 4.2.2	Par 4.2.3
Number, Short Title or Description	Physical Security Structural Upgrade Program (PHSSUP)	AA&E Intrusion Detection System (AA&E IDS)	Automated Entry Control System (AECS)
Nun	÷.		m m

# UNITED STATES MARINE CORPS

DOD Physical Security Master Plan Equipment Implementation Partially Implemented Items

Number, Short Title Option Number or Description (or Summary

None

Cor Summary Page
None

None

Remarks

Estimated Completion Date

None

# UNITED STATES MARINE CORPS

DOD Physical Security Master Plan Equipment Implementation Overcome By Events Items

> Number, Short Title or Description

None

Option Number (or Summary) None

None <u>Page</u> None

Remarks

None

Date Of Determination

5.  Attachment F
Air Force Presentation Charts



### AIR FORCE BISS PROGRAM

PRESENTED BY: COLONEL ANDREW CORSO

AIR FORCE SECURITY POLICE CENTER

MAJOR DAVID P. MACKENZIE ESD/AVJB BISS PROGRAM MANAGER



# BISS EXECUTION

### FY90

COMMITMENTS	\$5,509,000
BA	\$5,509,000

OBLIGATIONS \$5,483,412

76.51%

99.53%

100%

### FY91

85.69%

\$4,909,000

## EXPENDITURES

**OBLIGATIONS** 

\$3,503,140

71.36%

\$336,875	<b>6.86</b> %
336,87	.86

DATA A/O 22 APR 91 FROM ; OCAL ACCOUNTING RECORDS



## AF ANNUNCIATOR PROGRAM

### OBJECTIVE:

OBTAIN EQUIPMENT TO MEET AF PRIORITY B&C STAND-ALONE, LARGE AND SMALL AREA, AND PRIORITY A REDUNDANT ALARM ANNUNCIATION/CCTV SYSTEM NEEDS UNTIL FULL CAPABILITY DOD ANNUNCIATOR IS AVAILABLE

### APPROACH:

- 3 EFFORTS ON-GOING
- STANDARD ANNUNCIATOR SYSTEM (STAS), AN/GSS-41
- SMALL ANNUNCIATOR SYSTEM (SMAS), AN/GSS-44
- SUPPORT TO ARMY INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM (ICIDS)



# STANDARD ANNUNCIATOR SYSTEM

### CAPABILITIES:

- NON-NUCLEAR INSTALLATIONS REGUIRING CCTV
- UP TO 4096 SENSORS
- UP TO 64 CAMERAS
- UPS
- ELECTRONIC MARKING ON VIDEO SIGNAL

### TATUS:

- DEVELOPMENT PHASE COMPLETE
  - PRODUCTION COMPLETE
- 8 OPERATIONAL INSTALLATIONS
- PROGRAM MGT RESPONSIBILITY TRANSFER (PMRT) IN MAY 1991



## SMALL ANNUNCIATOR SYSTEM

### CAPABILITIES:

- DESIGNED FOR SMALL PRIORITY B&C INSTALLATIONS
- NO CCTV
- COMPACT SIZE TO MEET SPACE RESTRICTIONS
  - UP TO 2048 SENSORS

### STATUS:

- DEVELOPMENT PHASE COMPLETE
- PRODUCTION COMPLETE
- 5 OPERATIONAL SYSTEMS
- PMRT JULY 1991



# DVANCED ENTRY CONTROL SYSTEMS PROGRAM

### OBJECTIVE:

AND C RESTRICTED AND CONTROLLED AREAS WITH INCREMENTAL LEV-PROVIDE ADVANCED ENTRY CONTROL SYSTEM FOR PRIORITY A, B, ELS OF IDENTITY VERIFICATION STATUS

### APPROACH:

- DEVELOP PROTOTYPE AND GATHER HUMAN FACTORS DATA AT ELLSWORTH AFB
- DEVELOP PURCHASE DESCRIPTIONS/SPECS BASED ON PROTOTYPE
- PROCURE AND FIELD NDI SYSTEM ON ID/19 BASIS

### CAPABILITY:

- THREE FORMS OF IDENTIFICATION (MAGNETIC CARDS, PERSONAL IDENTIFICATION NUMBER AND PERSONAL IDENTITY VERIFIER)
- COMPATIBLE WITH ICIDS AND FIELDED ANNUNCIATORS/IDS SYSTEMS
- EXPANDABLE AS NEEDS CHANGE OR FOR SITE TAILORING

## DVANCED ENTRY CONTROL SYSTEMS PROGRAM

### STATUS:

- PROTOTYPE INSTALLATION AT ELLSWORTH JULY 1991
- COMMERCIAL MARKET SURVEYED (32 RESPONDEES)
- ACQUISITION STRATEGY PANEL PASSED
- DRAFT RFP IN PREPARATION

### SCHEDULE:

- **SEP 91** - DRAFT RFP RELEASE
- OCT 91 RFP RELEASE
  - DEC 91 **FEB 92** CONTRACT AWARD

PROPOSAL RECEIPT

SEP 92 1ST INSTALLATION

### COST:

- 3600 (FY91-FY94)
- \$6.2M \$29.7M (AF ONLY) 3080 (FY93-FY97)

NOTE: PLANNED CONTRACT CEILING \$70M (ID/IG)



# DISPERSED INTEGRATEL SECURITY SYSTEM

### DESCRIPTION:

ALARM REPORTING, ASSESSMENT, COMMUNICATIONS, RESPONSE PORTABLE/TRANSPORTABLE SYSTEM CAPABLE OF: DETECTION,

### STATUS:

- NEW PROGRAM

## PROGRAM PLAN:

- TWO PHASE ACQUISITION
- -- PHASE 1: NDI INTEGRATION
- -- PHASE 2: DEVELOP/UPGRADE TECHNOLOGICAL CAPABILITY

### SCHEDULE:

- PHASE 1: FY91-FY93

PHASE 2: FY93-FY95



# DISPERSED INTEGRATED SECURITY SYSTEMS

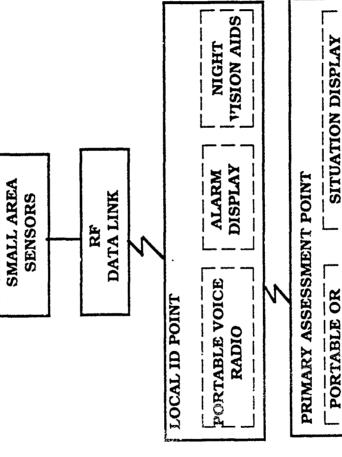
## - REQUIREMENT:

- NEEDED CAPABILITIES HAVE BEEN STATED IN DRAFT SONS, DRAFT JSORS, OPS CONCEPTS AND ROCS
- MISSION:
- PROTECT DIVERSE ASSETS AGAINST VARIOUS THREATS
- --- AUGMENT PHYSICAL SECURITY FORCES
- PROTECT BARE BASES, DISPERSED SYSTEMS AND MOBS
- CAPABILITY:
- DETECT, IDENTIFY, ASSESS, RESPOND, DELAY, DENY
- --- A TOTAL SECURITY PACKAGE/SYSTEM
- --- GUICK REACTION WORLDWIDE APPLICATION
  - --- MODULAR
- --- EASILY DEPLOYABLE



# DISS SYSTEM ELEMENTS

## PHASE 1



PORTABLE OR BASE STATION RADIO
--------------------------------

RESPONSE FORCE VEHICLE

VEHICLE RADIO



# DISS SYSTEM ELEMENTS

## PHASE 2

RELOCATABLE	SENSORS		•	٠				SHELTER	1		
	SENSORS			WIDE-AREA	THERMAL			AIRBORNE   AUTOMATIC   DETECTION   DATA   DATA			VEHICLE-MOUNTEI EQUIPMENT
SMALL AREA SENSORS		RF DATA LINK	7	LOCAL ID POINT	PORTABLE VOICE ALARM NIGHT RADIO DISPLAY VISION AIDS	7	PRIMARY ASSESSMENT POINT	PORTABLE OR   SITUATION DISPLAY   BASE STATION   BOARD   RADIO   (MANNUAL DATA ENTRY)	5	RESPONSE FORCE VEHICLE	VEHICLE RADIO



# PORTABLE RECONFIGURABLE LINE SENSOR

### DESCRIPTION:

- LINE-OF-SIGHT INTRUSION DETECTION SENSOR
- TEMPORARY/PORTABLE, FIXED OR MOBILE

### STATUS:

- FSD DOCUMENTATION/SPECIFICATION COMPLETE
- COMMERCIAL MARKET SURVEY CONDUCTED
- PROGRAM START REVIEW COMPLETE TO ESD/CC
  - RFP IN PREPARATION

## PROGRAM PLAN:

- COTS/NDI PROCUREMENT ANTICIPATED
- EFFORT TIED TO DISS PHASE ONE

SCHEDULE: FY91 THROUGH FY93

COST: \$2.4 MILLION (BUDGET ESTIMATE)



# THERMAL IMAGER SYSTEMS

## DESCRIPTION:

- TRANSPORTABLE/FIXED PASSIVE INFRARED SYSTEM
- AUTOMATIC, COMPUTER CONTROLLED WIDE AREA DETECTION & ASSESSMENT; TARGET TRACKING (MIDAS)

STATUS: NEW PROGRAM

## PROGRAM PLAN:

- CONCEPT DEVELOPMENT/DEMO SYSTEMS
- -- MIDAS (DNA/SNL)
- -- VISDTA (AF/SNL)
- VISDTA SYSTEM SPECIFICATION PREPARED
- . MIDAS TRANSITION TO AF BY DNA IN FY 92-93
- CONSOLIDATION OF PROGRAMS MAY BE APPROPRIATE

SCHEDULE: FY92 START (PENDING AVAILABLE FUNDS)

COST: \$15.2M (BUDGET ESTIMATE)



# ENGAGEMENT SIMULATION SYSTEM **PROGRAM**

### OBJECTIVE:

PROVIDE A TRAINING SYSTEM FOR USE BY PHYSICAL SECURITY PER-SONNEL IN THE SIMULATION OF TACTICAL ENGAGEMENTS AGAINST AD-VERSARIES.

### APPROACH:

- BASED ON DNA EXPERIENCE WITH TESS DEVELOPMENT
- CONDUCT EVALUATION OF EXISTING COMMERCIAL SYSTEMS
- GO FOR THE "80%" SOLUTION
- PROVIDE NDI EGUIPMENT WITH CONTRACT SUPPORT

## CAPABILITIES:

- INCLUDES PERSONNEL AND FIXED EMPLACEMENTS
- INSTANT CASUALTY NOTIFICATION
- IDENTIFICATION OF SHOOTER AND TARGET
- TIMING OF EVENTS
- REMOTE RESET



# ENGAGEMENT SIMULATION SYSTE PROGRAM

### STATUS:

- TESS HARDWARE PROVIDED TO ESD
- COMMERCIAL MARKET SURVEY CONDUCTED
  - ALTERNATIVES IDENTIFIED TO AFOSP
    - AWAITING FUNDING

### SCHEDULE:

- NEW PROGRAM
- PLANNED FY92 START

### COST:

\$.646M BUDGET ESTIMATE (3600)



## AIRBORNE INTRUSION DETECTION SYSTEM

## DESCRIPTION:

- SMALL TRANSPORTABLE OR TACTICAL SYSTEM

DETECT ULTRA-LIGHT AIRCRAFT, HANG GLIDERS, PARACHUTISTS

DETECTION RANGE 3KM NOMINAL

PROTECTION FOR SMALL FIXED OR TEMPORARY SITES; HAS DISS **APPLICATIONS**  NEW PROGRAM; CONCEPT OF OPERATIONS DIFFERS FROM DISCONTINUED RAIDS PROGRAM STATUS:

## PROGRAM PLAN:

REGUIREMENTS & MISSION ANALYSIS

NDI SYSTEMS DEMONSTRATION/ EVALUATION

DRAFT SPECIFICATION

PROCUREMENT OF NDI SYSTEM, IF APPROPRIATE

DEVELOPMENT PROGRAM, ONLY IF REGUIRED

SCHEDULE: PLANNED FY95 START

COST: \$2M BUDGET ESTIMATE (NDI DEMO/EVAL ONLY)

\$7.1M THROUGH FSD



## AIRCRAFT EMBEDDED SECURITY SYSTEM

## DESCRIPTION:

- SENSORS INTEGRATED INTO AIRFRAME
- REPORT ALARMS TO REMOTE ANNUNCIATOR
- SENSOR POWER PROVIDED BY AIRCRAFT BATTERIES
- EVALUATE WEIGHT & PERFORMANCE PENALTIES

STATUS: NEW PROGRAM

## PROGRAM PLAN:

- REGUIREMENTS & MISSION ANALYSIS
- NDI DEMONSTRATION/EVALUATION
  - PRODUCE DRAFT SPECIFICATION
- FSD PROGRAM RECOMMENDATIONS

SCHEDULE: DEFERRED UNTIL FY 95

COST: \$6.0M (BUDGET ESTIMATE)



# ENTRY CONTROL SYSTEM BASE AND INSTALLATION

## DESCRIPTION:

AUTOMATED ENTRY CONTROL SYSTEM BASED ON AECS

FREE FLOW ACCESS THROUGH BASE ENTRANCES

MINIMIZE RELIANCE ON HUMAN OBSERVATION

STATUS: NEW PROGRAM

## PROGRAM PLAN:

FSD PROGRAM

INTEGRATE/ADAPT AECS SYSTEM TO BIECS APPLICATION

SCHEDULE: DEFERRED UNTIL FY 98

COST: \$2.7M (BUDGET ESTIMATE)

#### RDT&E USAF BISS STANDARD AND SMALL ANNUNCIATORS

GENERAL DESCRIPTION: The Air Force has an ongoing requirement for annunciator systems. The current program includes a small scale development and procurement phase in which limited quantities of annunciators will be produced for immediate operational requirements. The second phase will acquire equipment for future requirements through the Army ICIDS program, once ICIDS becomes available for Joint Service use.

These annunciator systems integrate a computer-based annunciator, CCTV, and associated data communications equipment. This equipment receives sensor inputs, transmits alarm data, and annunciates alarm conditions so an operator can effectively localize and assess threats. These systems are highly modular and expandable, yet they maintain ease of operation and maintenance. The systems are fully supportable, using NDI hardware and software wherever possible.

There are four discrete elements to this program. The first element is the Standard Annunciator System (STAS). The STAS is an integration project of commercial off the shelf equipment and minimum developed software. This system provides the required capability to secure Air Force Priority B and C resources.

The second element is the Small Annunciator System (SMAS). The SMAS is an equipment subset of the STAS and is to be used for small Priority B and C applications that do not require CCTV capability.

The third element is the Local/Remote Annunciator System (LRAS). This system is an integration of the STAS and SMAS to meet priority A security requirements. This system has been demonstrated but production has been held in abeyance in deference to ICIDS.

The fourth element is the Integrated Commercial Intrusion Detection System (ICIDS). ICIDS is an Army procurement that is expected to meet all annunciator requirements for the Air Force beginning in FY93.

STATUS AND SCHEDULE: The Annunciator Development program will be concluded in FY91 with the completion of actions necessary for Program Management Responsibility Transfer (PMRT) the STAS and SMAS to Air Force Logistics Command (AFLC). Initial Operating Capability (IOC) has been achieved. The progress of the ICIDS Program is being monitored and initial estimates of Air Force production requirements have been identified to the Army.

<u>PRODUCTION PLANNING</u>. Limited production is planned through FY92 to satisfy immediate Air Force needs. Total production costs are estimated to be \$5.7M for the combined Standard and Small Annunciator Program.

#### RDT&E USAF BISS ADVANCED ENTRY CONTROL SYSTEM (AECS)

GENERAL DESCRIPTION: The AECS is an access control system to be employed at entry control points of restricted and controlled access areas. The AECS will rapidly and consistently verify the identity of authorized personnel, permitting them access to the secured area, while denying entry to unauthorized personnel. The AECS will have a flexible capability, employing various levels of identity verification using three levels of personal identification i.e., card/badge reader, Personal Identification Number (PIN) and a Personal Identity Verifier (PIV)). The methods of identification will vary with the type of area secured. High priority areas will typically employ all three levels of identification while one or more methods may be omitted in areas of lesser priority.

Non Developed Items (NDI) will be employed where possible, and development is expected to be confined to a systems integration effort.

STATUS AND SCHEDULE: A market investigation was completed in FY91 for the AECS. A system specification is being prepared. Documentation is in preparation for a system integration and production contract which is scheduled to be awarded in FY92. DT&E and OT&E is scheduled for late FY92. Initial Operational Capability (IOC) is projected for FY93.

Two related AECS projects, Ellsworth AFB and TRIGS, were worked in parallel with the standard AECS program and are essentially identical systems. The Ellsworth AECS is a concept definition system and is scheduled for installation in late FY91. The TRIGS AECS requirement was cancelled in 2QFY91.

<u>PRODUCTION PLANNING</u>: IOC is planned for FY93, with turnover of the first system following OT&E. Production of 34 systems is planned through FY97 at a cost of S29.7M (Air Force only).

#### RDT&E USAF BISS DISPERSED INTEGRATED SECURITY SYSTEM (DISS)

GENERAL DESCRIPTION: DISS is a transportable sensor system capable of detection, alarm reporting, assessment, communications and response. DISS will be rapidly deployable, modular and capable of operating over a wide range of mission types against varying threats. The DISS program encompasses both Air Base Ground Defense and relocatable individual resource protection requirements. Major elements of DISS are: detection devices, thermal imagers, MIDAS/VISDTA, display devices, a light armored vehicle (by others), delay/denial systems (when available), an airborne detection system, an Engagement Simulation System (ESS), and radio communications equipment.

STATUS AND SCHEDULE: This is a new program with three distinct elements. The first element addresses the relocatable individual resource protection requirement using a complement of relocatable sensors. The relocatable sensor project is included under the umbrella of DISS but will be managed as a separate project. A contract for integration of commercial or NDI products is scheduled for award in early FY92. Production is scheduled for early FY93. IOC is scheduled for late FY93

The second element addresses the requirement for an intrusion detection and assessment systems for use in a dispersal mode application. Candidate hardware includes MIDS and military night vision aids. Work is under way which will yield a production contract in FY92 for the intrusion detection system. This project is included under the umbrella of DISS but will be managed as a separate project. The night vision equipment will be acquired through the Army on a matching schedule. IOC is scheduled for FY94.

The third element is a complete capability system integration effort. A separate contract will be awarded in late FY92 to produce the complete required system using commercial and developed components, including those available through the other elements of the DISS program. IOC is scheduled for FY96.

PRODUCTION PLANNING: To be accomplished in FSD (third element).

PROBLEMS: Program should be started in FY91, but will be delayed until FY92 because of funding constraints.

#### RDT&E USAF BISS AIRCRAFT EMBEDDED SECURITY SYSTEM (AESS)

GENERAL DESCRIPTION: This is to be a system of sensors which are built in to the airframe of various aircraft, drawing their power from either the aircraft's or their own batteries and eliminating the need for security forces to be in close proximity to the aircraft. The system is armed and accessed by the aircrew. Intruders attempting to gain access to or tamper with the aircraft will be detected by the sensors, and an alarm automatically radioed to a remote annunciator.

STATUS AND SCHEDULE: A full-scale development project is scheduled to begin in FY95, emphasizing the integration of NDI equipment. Tests will be conducted to determine the effectiveness, cost penalties, and weight penalties.

PRODUCTION PLANNING: To be accomplished during FSD.

### RDT&E USAF BISS BASE & INSTALLATION ENTRY CONTROL SYSTEM (BIECS)

GENERAL DESCRIPTION: This system will provide a means of automatically identifying authorized vehicles and personnel through identity devices such as bar code decals, magnetic stripe ID cards, proximity cards, etc. Vehicle control will be accomplished by lane markings, traffic lights, gates, etc. Visitors will be handled at a separate entry point to facilitate entry/exit by regular base personnel. Use of NDI equipment will be maximized. The BIECS project is related to the current AECS program.

STATUS AND SCHEDULE: An R&D effort to determine the most viable methods and equipment will be started in FY98.

PRODUCTION PLANNING: To be accomplished during FSD.

#### RDT&E USAF BISS THERMAL IMAGER SYSTEMS

GENERAL DESCRIPTION: This program responds to the operational need for night vision capability expressed in the Draft JSOR for Thermal Imagers and Thermal Weapons Sights. This program is related to the DISS Program in that products developed here will be directly useable for the DISS mission. The systems produced by the Thermal Imager Program will provide passive imaging equipment for improved surveillance, target detection, target tracking, and target assessment. The program will make maximum use of existing or new production military equipment when available or, alternately, commercial systems. The program will be conducted in a phased approach, the first to integrate the Low Cost Uncooled Sensor Program (LOCUSP) imagers into common physical security applications for Closed Circuit Television (CCTV) equipment. The second phase will apply LOCUSP imagers to development systems such as the Mobile Intrusion Detection and Assessment System (MIDAS). A P3I approach to production and product upgrades will be applied to the program. This program will incorporate the follow-on development effort for the DNA MIDAS project.

STATUS AND SCHEDULE: This is a new program. Documentation will be propared in FY92 for a system integration and production contract which is scheduled to be awarded in FY93. DT&E and OT&E will be conducted as major subsystems become ready. Initial Operational Capability (IOC) for the CCTV application is projected for FY93.

PRODUCTION PLANNING: To be accomplished during FSD.

### RDT&E USAF BISS ELECTRONIC ENGAGEMENT SYSTEMS (ESS)

GENERAL DESCRIPTION: This program responds to the operational need for a force on force training system for use by personnel who perform physical security duties for the Air Force. The requirement for this system is expressed in the "Operations Concept for Integrated Tactical Security System," 21 Feb 1990. This is a training system based on, the DNA Tactical Engagement Simulation System (TESS) project. The ESS equipment is based on an eye-safe Class I laser optical device. It provides significant performance improvements over the presently used MILES system. The system simulates tactical engagement against adversaries. ESS will provide instant casualty notification, the ability to determine who shot whom and the time of the event. The equipment will provide the capability to include personnel and fixed emplacements in exercises. Remote reset capability of ESS equipment is also provided.

STATUS AND SCHEDULE: This is a new program. In FY91, a small effort was completed to compare TESS with commercially available systems. The results will be reviewed by users. The remainder of the project schedule will be determined by the results of the review. Based on the review recommendations, an acquisition project will be initiated in FY92 to procure either the TESS equipment or a commercial system with the best match to the operational requirement.

PRODUCTION PLANNING: To be accomplished as a part of FY92 acquisition effort.

#### RDT&E USAF BISS AIRBORNE DETECTION SYSTEM (ADS)

GENERAL DESCRIPTION: This is a system which is capable of detecting airborne, low radar cross section targets advancing on sites and facilities in which it is operating. The system must detect ultralight aircraft, hang-gliders, para-sails and parachutists and provide at least 30 seconds warning time. The system must be man portable, operate in the full military exterior environment, and provide for remote monitoring capability.

<u>STATUS AND SCHEDULE</u>: A full-scale development project is scheduled to begin in FY95. It is anticipated that the development program will consist of systems integration effort which concentrates on fusion of NDI military or commercial components.

PRODUCTION PLANNING: To be accomplished during FSD.

PHYSICAL SECURITY EQUIPMENT

UNITED STATES AIR FORCE

COLONEL ANDREW CORSO

CHART A

# USAF BASE & INSTALLATION SECURITY SYSTEM RDT&E PROGRAM (\$ IN THOUSANDS)

PR	PROGRAMS		<u>FY91</u>	FY92	FY93	<b>FY94</b>	FY95	FY96	FY97	<b>FY98</b>	SUBTOTAL
<del>-</del> i	STANDARD & SMALL ANNUNCIATORS	(6.3) (6.4)	910								910
2.	ADVANCED ENTRY CONTROL SYSTEM	(6.3) (6.4)	2615	2384	752	492					6243
'n	DISPERSED INTEGRATED (6.3) SECURITY SYSTEMS (6.4)	(6.3) (6.4)	1759	2324	3156	2669	1369				10831
4	THERMAL IMAGER SYSTEMS	(6.3) (6.4)	516	846	1000	2839	4412	2580	. 1082	1000	1000 14167
ů.	ELECTRONIC ENGAGEMENT(6.3) SYSTEM (6.4)	T(6.3) (6.4)		446	200						646
9.	AIRBORNE DETECTION SYSTEM	(6.3) (6.4)					396	1759	2459	2500	7114
7.	AIRCRAFT EMBEDDED SECURITY SYSTEM	(6.3) (6.4)					569	1661	2459	1659	6048
œ̈́	BASE & INSTALLATION ENTRY CONTROL SYSTEM	(6.3) (6.4)								. 841	841
SOL	SUBTOTALS	(6.3) (6.4)	5800	0009	1000 5000	0009	0009	0009	0009	0009	1000 46800
GR	GRAND TOTAL		2800	0009	0009	0009	0009	0009	0009	0009	47800

PHYSICAL SECURITY EQUIPMENT

CHART B

# USAF BISS STANDARD AND SMALL ANNUNCIATOR RDT&E PROGRAM (\$ IN MILLIONS)

PROJECTS		<u>FY91</u>	FY92	FY93	FY94	FY95	FY96	FY97	FY98	SUBTOTAL
1. CRT GRAPHIC DISPLAY (6.3) MINOR SOFTWARE MOD (6.4) MECHANICAL REDESIGN	(6.3) (6.4)	.462								.462
2. PMRT PREPARATION ACTIONS	(6.3) (6.4)	.448								.448
SUBTOTALS	(6.3) (6.4)	.910								.910
GRAND TOTAL		.910								.910

#### CHART B

# USAF BISS ADVANCED ENTRY CONTROL SYSTEM RDT&E PROGRAM (\$ IN MILLIONS)

								•		•	
PR	PROJECTS		FY91	FY92	FY93	FY94	FY95	FY96	<u>FY97</u>	FY98	SUBTOTAL
	DOD STANDARD SPECIFICATION	(6.3) (6.4)	.400								.400
2.	PROOF OF CONCEPT DEMONSTRATION (ELLSWORTH)	(6.3) (6.4)	.367								.367
w.	ACQUISITION PROGRAM DOCUMENTATION/ SUPPORT	(6.3) (6.4)	1.613	.434	.352	.317					2.716
4.	CONTRACT AWARD	(6.3) (6.4)		1.700	.350	.150					2.200
5.	INSTALLATION AND TEST	(6.3) (6.4)	.235	.250	.050	.025					. 560
SUE	SUBTOTALS	(6.3) (6.4)	2.615	2.384	.752	.492					6.243
GR	GRAND TOTAL		2.615	2.384	.752	.492				-	6.243

CHART B

# USAF BISS DISPERSED INTEGRATED SECURITY SYSTEM RDT&E PROGRAM (\$ IN MILLIONS)

					orcolus I		STORE INCOME		(+ IN MILLIONS)	(cuot	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PROJECTS		FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98	SUBTOTAL
* 4	RELOCATABLE SENSOR SYSTEM	(6.3) (6.4)	717.	. 585	.431						1.733
2.	CORE EQUIPMENT (6.3) INTEGRATION (PHASE 1) (6.4) PROGRAM SUPPORT	(6.3) 1)(6.4)	.907	.456	.177						1.540
m.	NDI EQUIPMENT INTEGRATION (PHASE 2)(6.4) PROGRAM SUPPORT	(6.3) 2)(6.4)		.323	. 423	. 423	.623				1.792
4	CONTRACT AWARD (PHASE 1)	(6.3) (6.4)		.750	.500						1.250
w.	CONTRACT AWARD (PHASE 2)	(6.3) (6.4)			1.500	1.746	.250				3.496
6.	TESTING (PHASE 1)	(6.3) (6.4)	.135	.200	100						. 435
7.	TESTING (PHASE 2)	(6.3) (6.4)		.010	.025	. 500	.050			-	. 585
SUE	SUBTOTALS	(6.3) (6.4)	1.759	2.324	3.156	2.669	.923				10.831
GR	GRAND TOTAL		1.759	2.324	3.156	5.669	.923				10.831

### USAF BISS THERMAL IMAGER SYSTEMS RDT&E PROGRAM (\$ IN MILLIONS) CHART B

			ILMOER	3131513	KUIGE	KOGKA	THE THE THERE STOLETS KNIGE PROGRAM (\$ IN MILLIONS)	(SNOTT)		
PROJECTS		FY91	<b>FY92</b>	FY93	FY94	FY95	FY96	FY97	FY98	SUBTOTAL
1. VIDSTA ADVANCED DEVELOPMENT CONTRACT	(6.3) (6.4)	292								.292
2. LOCUSP INTEGRATION	(6.3) (6.4)		. 500	. 269						. 769
3. LOCUSP/MIDAS PROGRAM SUPPORT	(6.3) (6.4)	.194	.196	.423	.423	.623	.623	.423	.423	3.328
4. MIDAS DEVELOPMENT	(6.3) (6.4)			1.000	2.216	3.589	1.757	.659	.577	1.000
5. LOCUSP/MIDAS TESTING	(6.3) (6.4)	.030	150	.200	. 200	. 200	.200			.9800
SUBTOTALS	(6.3) (6.4)	.516	.846	1.000	2.839	4.412	2.580	1.082	1.000	1.000
GRAND TOTAL		.516	.846	1.892	2.839	4.412	2.580	1.082	1.000	15.167

CHART B

# USAF BISS ELECTRONIC ENGAGEMENT SYSTEMS RDT&E PROGRAM (\$ IN MILLIONS)

SUBTOTAL	.246	.400	.646	.646
FY98				
FY97				
<b>FY96</b>				
FY95				
FY94				
FY93		. 200	. 200	.200
FY92	.246	. 200	.446	.446
FY91				
	(6.3) (6.4)	(6.3) (6.4)	(6.3) (6.4)	
PROJECTS	1. AIR FORCE LOGISTIC SUPPORT	2. TESTING	SUBTOTALS	GRAND TOTAL

#### CHART B

# USAF BISS AIRCRAFT EMBEDDED SECURITY SYSTEM RDT&E PROGRAM (\$ IN MILLIONS)

PROJECTS		<u>FY91</u>	FY92	FY93	<b>FY94</b>	FY95	FY96	FY97	FY98	SUBTOTAL
1. PROGRAM SUPPORT	(6.3) (6.4)					. 259	.259	. 259	.259	1.036
2. TESTING	(6.3) (6.4)					.010	.025	. 200		.235
3. SYSTEM INTEGRATION	(6.3) (6.4)						1.377	2.000	1.400	4.777
SUBTOTALS	(6.3) (6.4)					. 269	1.661	2.459	1.659	6.048
GRAND TOTAL						.269	1.661	2.459	1.659	6.048

#### CHART B

# USAF BISS AIRBORNE DETECTION SYSTEM RDT&E PROGRAM (\$ IN MILLIONS)

PROJECTS		FY91	FY92	FY93	FY94	FY95	FY96	FY97	<b>FY98</b>	SUBTOTAL
1. PROGRAM SUPPORT	(6.3) (6.4)					.261	. 259	. 259	. 259	1.038
2. TESTING	(6.3) (6.4)					.135		.200	.200	. 535
3. SYSTEM INTEGRATION CONTRACT	(6.3) (6.4)						1.500	2.000	2.041	5.541
SUBTOTALS	(6.3) (6.4)					.396	1.759	2.459	2.500	7.114
GRAND TOTAL						.396	1.759	2.459	2.500	7.114

# USAF BISS BASE & INSTALLATION CONTROL SYSTEM RDT&E PROGRAM (\$ IN MILLIONS)

CHART B

PROJECTS		FY91	FY92	FY93	FY94	<u>FY95</u>	FY96	FY97	FY98	SUBTOTAL
1. REQUIREMENTS AND ()	(6.3) (6.4)								.156	. 156
2. NDI SYSTEMS ADAPTATION	(6.3) (6.4)								.685	. 685
SUBTOTALS	(6.3) (6.4)								.841	.841
GRAND TOTAL									.841	.841

CHART C

# USAF BISS PROCUREMENT (\$ IN MILLIONS)

#### \*COST/BUDGETED

i±. <b>X</b> ₽	e OF	IYPE OF EQUIPMENT/SYSTEM	NUMBER OF Sets	FY91	FY92	<u>FY93</u>	FY94	<b>EY95</b>	FY96	FY97	FY98	SUBTOTAL
<del></del>	AF	AF ANNUNCIATOR										
	Α.	STANDARD	2	.24/.24								.24/.24
	8	SMALL	7	.28/.28 .88/.88 .91/.91	.88/.88	.91/.91						2.1/2.1
2.	ARM	2. ARMY ICIDS										
	Ą	A. STANDARD	48			.60/.60 2.2/0 1.6/0	2.2/0	1.6/0	4.3/0	5.5/0		14.2/.60
	89	SMALL	59			.24/.24 .62/0	.62/0	.78/.0	1.2/0	0/96		3.1/.24
3.	V.F	AF AECS										
	A.	PRIORITY A	16			.82/.82	2.6/2.	2.6/2.6 5.2/0 3.6/0	3.6/0	1.9/0		14.1/3.4
	Э	PRIORITY B	S				.81/0	.84/0		2.7/0		4.3/0
	ن	C. PRIORITY C	13				1.9/0		.73/0 3.3/0	5.1/0		11.3/0
4.	REL	RELOCATABLE SENSORS								-		
	A.	RELOCATABLE SENSOR SYSTEM (NDI)	488		.88/.88	.88/.88 1.0/1.0 1.0/0	1.0/0	1.0/0 1.0/0	1.0/0			4.9/1.9

CHART C

# USAF BISS PROCUREMENT (\$ IN MILLIONS)

#### \*COST/BUDGETED

<b>≧</b> ⊙	TYPE OF EQUIPMENT/SYSTEM (CONT)		NUMBER OF Sets	FY91	FY92	FY93	FY94	FY95	FY96	<u>FY97</u>	FY98	SUBTOTAL
	B. OTHER RE SENSORS	OTHER RELOCATABLE SENSORS	504	.67/.41	1.2/.76	.67/.41 1.2/.76 1.2/.98 1.3/.50 1.4/.80 1.8/1.2 2.4/1.5	1.3/.50	1.4/.80	1.8/1.2	2.4/1.5	TBD	10.0/6.2
ب		THERMAL IMAGER SYSTEMS										
	A. THERMA	THERMAL IMAGERS	36		.61/.61	.61/.61 .47/.47 .50/.50 .85/.85 .60/.60 .90/.90	.50/.50	.85/.85	.60/.60	.90/.90	TB0	4.0/4.0
	B. MOBILE DETECT	MOBILE INTRUSION DETECTION SYSTEM	180									
9	ELECTRONIC SYSTEMS	ELECTRONIC ENGAGEMENT SYSTEMS	688					1.4/1.1	1.4/1.1 1.0/.77 1.0/.76	1.0/.76	180	3.4/2.6
7.	AIRBORNE D	AIRBORNE DETECTION SYSTEM	M TBD									
œ̈	AIRCRAFT EMBEDDED SECURITY SYSTEM	EMBEDDED SYSTEM	180									
9.	BASE & INSTALLATION ENTRY CONTROL SYSTEI	BASE & INSTALLATION ENTRY CONTROL SYSTEM	180									
101	TOTAL FUMDS	COST BUDGETED		1.2	3.6	5.2	10.9 3.6	13.8	16.8 2.6	20.5	180 180	72.2

#### CHART D

# USAF BISS INSTALLATIONS/PLATFORMS (\$ IN MILLIONS)

#### \*FUNDS REQUIRED/BUDGETED

<u></u> 0	TYPE OF EQUIPMENT' INST PSE SYSTEMS PLAT	NUMBER OF INSTALLATON/ PLATFORMS	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98	SUBTOTAL
ANNUN	AF ANNUNCIATOR										
A. STANDARD	IDARD	8	.24/.24								.24/.24
B. SMALL	ונ	,	.28/.28	.28/.28 .88/.88 .91/.91	.91/.91						2.1/2.1
ARMY ICIDS	SOL										
A. ST/	STANDARD	48			.60/.60 2.2/0 1.6/0	2.2/0	1.6/0	4.3/0	5.5/0		14.2/.60
B. SM	SMALL	59			.24/.24 .62/0 .78/.0	.62/0	.78/.0	1.2/0	0/96		3.1/.24
AF AECS	S										
A. PR	PRIORITY A	16			.82/.82	2.6/2.	.82/.82 2.6/2.6 5.2/0 3.6/0	3.6/0	1.9/0		14.1/3.4
PR	PRIORITY B	ស				.81/0	.84/0		2.7/0		4.3/0
3	PRIORITY C	13				1.9/0		.73/0 3.3/0	5.1/0		11.3/0
OCA	4. RELOCATABLE SENSORS										
A. RE SY	RELOCATABLE SENSOR SYSTEM (NDI)	122		.88/.88	.88/.88 1.0/1.0 1.0/0	1.0/0		1.0/0 1.0/0			4.9/1.9

#### CHART D

# USAF BISS INSTALLATION/PLATFORMS (\$ IN MILLIONS.)

#### \*FUNDS REQUIRED/BUDGETED

<b>X</b>	TYPE OF (CONT)	TYPE OF EQUIPMENT/SYSTEM (CONT)		NUMBER OF SETS	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98	SUBTOTAL
	<b>.</b>	OTHER RELOCATABLE SENSORS	CATABLE	504	.67/.41	57/.41 1.2/.76 1.2/.98 1.3/.50 1.4/.80 1.8/1.2 2.4/1.5	1.2/.98	1.3/.50	1.4/.80	1.8/1.2	2.4/1.5	180	10.0/6.2
5.		THERMAL IMAGER SYSTEMS	SYSTEMS										
	Ą.	THERMAL IMAGERS	AGERS	36		.61/.61	.47/.47	.50/.50	.85/.85	.61/.61 .47/.47 .50/.50 .85/.85 .60/.60 .90/.90	.90/.90	TB0	4.0/4.0
		MOBILE INTRUSION DETECTION SYSTEM	RUS I ON SYSTEM	180									
6.		ELECTRONIC ENGAGEMENT SYSTEMS	AGEMENT	688					1.4/1.1	1.4/1.1 1.0/.77 1.0/.76	1.0/.76	180	3.4/2.6
7.	AIRI	BORNE DETEC	AIRBORNE DETECTION SYSTEM	180									
<b>ω</b>	AIR	AIRCRAFT EMBEDDED SECURITY SYSTEM	J. S.	180									
9	BASI	BASE & INSTALLATION ENTRY CONTROL SYSTEM	AT I CN SYSTEM	180									
10	TOTAL FUNDS	NNDS	COST BUDGETED		2.1	3.6 3.1	5.2 5.0	10.9 3.6	13.8	16.8 2.6	20.5	180 180	72.2 21.2

# DOD PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION

	V	89	ပ	Q
	# Required	# Implemented	#Not Implemented	# At Issue
MANAGEMENT OPTIONS				
RDI&E Programs	6	m	2	4
Procurement Programs	8	7	1	0
SUMMARY ACTIONS				
TOTAL	17	10	т	4
Estimated Completion Dates (of	s (of Column C)			
50% Completion Date	е FY94			
75% Completion Date	е FY98			
100% Completion Date	е FY99			

Note: Columns B+C+D=A

# AIR FORCE DOD PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION PARTIALLY IMPLEMENTED ITEMS

52	NUMBER, SHORT TITLE OR DESCRIPTION	OPTION NUMBER (OR SUMMARY)	PAGE	ES COMPLI	ESTINATED COMPLETION DATE
-	STANDARD AND SMALL ANNUNCIATOR	3.1.11	C-3-4	Completing documentation for PMRT	FY91
Ä	ADVANCED EXTRY CONTROL SYSTEM	3.1.1	C-3-1	Contract award for procurement	FY92
2.	DISPERSED INTEGRATED SECURITY SYSTEM (portable line sensor)	3.1.5	C-3-2	Contract award for procurement	FY93
e,	THERMAL IMAGER SYSTEMS	3.1.7	C-3-3	Acquisition plan for systems Potentially transition MIDAS	FY92 FY93
4.	ELECTRONIC ENGAGEMENT SYSTEMS			Test commercial systems and coordinate logistics support	FY93
5.	AIRBORNE DETECTION SYSTEM			MAJCOM funding begins FY92	FY97
6.	ACTIVE PROTECTION SYSTEMS	3.1.9	C-3-3	MAJCOM funding begins FY92	FY98

# DOD PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION OVERCOME BY EVENTS

52	NUMBER, SHORT TITLE OR DESCRIPTION	OPTION NUMBER (OR SUMMARY)	PAGE	REMARKS	DATE OF DETERMINATION
1.	AIRCRAFT EMBEDDED SECURITY SYSTEM			NO FORMAL REQUIREMENTS	FY90
2	BASE & INSTALLATION ENTRY CONTROL SYSTEM	3.1.2	C-3-1	NG FORMAL REQUIREMENTS	FY90
m m	3. THERMAL IMAGERY	3.1.7	C-3-2	MIDAS - WAITING FOR RESULTS OF DETECTABILITY STUDY	FY92
4.	ADVANCED PERSONNEL/ VEHICLE INSPECTION SYSTEMS	3.1.3	C-3-2	NO FORMAL REQUIREMENTS	FY90

Title of Program (or Summary) :

ADVANCED ENTRY CONTROL SYSTEMS (AECS)

Management Option or Action

THIS PROGRAM WILL PROVIDE A STANDARDIZED AECS FOR DOD RESOURCES, TO INCLUDE PRIORITY A, B AND C RESOURCES. SYSTEM SPECIFICATIONS WILL BE COMPLETED FY91; THE RFP WILL BE RELEASED AND A CONTRACT AWARDED FY92.

Title of Program (or Summary)

PRIORITY A REDUNDANT ANNUNCIATOR PROGRAM

Management Option or Action

THIS PROGRAM HAS BEEN TERMINATED PENDING EVALUATION OF THE ABILITY OF THE ARMY ICIDS PROGRAM TO FULFILL THIS REQUIREMENT.

Title of Program (or Summary)

MOBILE INTRUSION DETECTION AND ASSESSMENT SYSTEM (MIDAS)

Management Option or Action

MIDAS. MIDAS IS FUNDED THROUGH THE DNA EXPLORATORY PROGRAM WITH EXPECTED TRANSITION TO THE AIR FORCE FOR ADVANCED DEVELOPMENT HINGES ON THE RESULTS OF THE DETECTABILITY STUDY SCHEDULED TO BE COMPLETED DEC 91. THE AIR FORCE WILL TRANSITION THE PROGRAM IF MIDAS CAN MEET USER REQUIREMENTS. THIS PROGRAM WILL ALSO ASSESS THE CAPABILITY OF LOW COST THERMAL IMAGERS FOR INTEGRATION INTO DISPERSED INTEGRATED SECURITY SYSTEMS. THIS PROGRAM INCLUDES LOW COST THERMAL IMAGERS AND RENAMED THERMAL IMAGER SYSTEMS. MIDAS. MIDAS IS FUNDED THROUGH

•

Title of Program : AC (or Summary)

ACTIVE PROTECTION SYSTEMS (APS)

Management Option or Action

THIS PROGRAM NOW INCLUDES DELAY AND DENIAL SYSTEMS. THERE IS NO BISS FUNDING CURRENTLY FOR THIS TECHNOLOGY; HOWEVER, MAJCOM DOLLARS FOR R&D WILL BE AVAILABLE STARTING FY94 TO CONTINUE ON-GOING RESEARCH IF TECHNOLOGY PROVES PROMISING.

Title of Program : MICR.

"LASER DELAY AND DENIAL SYSTEM (MLDD)

Management Option or Action

THIS PROGRAM IS NOW INCLUDED IN ACTIVE PROTECTION SYSTEMS (PREVIOUS SLIDE).

Title of Program : E

: ELECTRONIC ENGAGEMENT SYSTEMS

Management Option or Action

8

PREVIOUSLY CALLED TACTICAL ENGAGEMENT SIMULATION SYSTEM. THE ARMY MILES II PROGRAM MAY MEET MOST OF THE REQUIREMENTS; THE AIR FORCE WILL CONDUCT TESTS TO DETERMINE IF MILES II CAN MEET IDENTIFIED REQUIREMENTS.

Title of Program (or Summary)

PRIORITY B & C INTERIM ANNUNCIATOR PROGRAM

Management Option or Action

THIS RENAMED STANDARD AND SMALL ANNUNCIATOR PROGRAM. THIS PROGRAM PROVIDES STANDARDIZED ANNUNCIATORS TO AIR FORCE USERS UNTIL ICIDS BECOMES AVAILABLE THROUGH THE ARMY. THIPROGRAM IS CURRENTLY SCHEDULED TO BE TERMINATED FY91.

Title of Program : VIDE (or Summary)

: VIDEO MOTION DETECTION (VMD)

Management Option :

VMD TECHNOLOGIES MAY PROVIDE UNIQUE POSSIBLITIES AT ENHANCING THE DETECTION AND ASSESSMENT OF USAF RESTRICTED AREA PERIMETERS; HOWEVER, THERE ARE CURRENTLY NO FORMAL REQUIREMENTS FOR THIS SPECIFIC TECHNOLOGY. THE DISS PROGRAM MAY INCLUDE VMD TECHNOLOGY.

Title of Program : PORT

PORTABLE LINE SENSOR

Management Option :

RENAMED RELOCATABLE SENSOR SYSTEM; THIS SENSOR IS INCLUDED IN DISS. THIS SYSTEM IS CAPABLE OF BEING EMPLOYED IN A SEMI-PERMANENT OR PORTABLE MODE TO PROVIDE PROTECTION FOR HIGH-VALUE AND/OR SENSITIVE RESOURES. PROGRAM START REVIEW IS SCHEDULED FOR FY91 WITH PLANS FOR AN FY92 CONTRACT AWARD FOR COMMERCIAL NDI SENSORS.

ADVANCED PERSONNEL/VEHICLE INSPECTION SYSTEMS Title of Program (or Summary)

Management Option : THIS PROJECTED

THIS PROJECTED EFFORT TO DEVELOP SYSTEMS TO IMPROVE USAF SEARCH OPERATIONS OF PERSONNEL AND VEHICLES ENTERING OR EXITING NUCLEAR RESTRICTED AREAS HAS BEEN PLACED ON HOLD PENDING IDENTIFICATION OF FORMAL REQUIREMENTS.

Title of Program (or Summary)

VIDEO IMAGING SYSTEM FOR DETECTION TRACKING AND ASSESSMENT (VISDTA)

Management Option or Action

THIS PROGRAM TO USE THERMAL IMAGERY AS DETECTORS HAS BEEN COMBINED WITH THE DNA MIDAS PROGRAM.

INTEGRATED TACTICAL SECURITY SYSTEM (ITSS) Title of Program (or Summary)

Management Option :

RENAMED DISPERSED INTEGRATED SECURITY SYSTEM (DISS). DISS IS AN ATTEMPT TO INTEGRATE COMMERCIALLY AVAILABLE RELOCATABLE SECURITY SYSTEM COMPONENTS TO SECURE LATERALLY DISPERSED WEAPON SYSTEMS AND RESOURCES, LARGE SCALE DEPLOYMENTS, AND INDIVIDUAL RESOURCE PROTECTION. PRODUCT SPECIFICATIONS WILL BE ACCOMPLISHED FY91; ACQUISITION PROGRAM WILL BE IMPLEMENTED FY92.

Title of Program (or Summary) :

BASE ENTRY CONTROL SYSTEM (BECS)

Management Option or Action

RESEARCH FOR STATE-OF-THE-ART TECHNOLOGIES TO AUTOMATE ENTRY AND VISITOR ACCESS TO AIR FORCE INSTALLATIONS DOES NOT MEET PROGRAM FUNDING LINE.

Title of Program (or Summary)

TRANSPORTABLE INTRUSION DETECTION SENSOR

Management Option or Action

1

THIS PROGRAM IS NOW INCLUDED IN DISPERSED INTEGRATED SECURITY SYTEMS.

Title of Program: Perimeter and Exterior Systems

This program installs buried line, and fence sensors as new or upgrades for priority resources. The program extends beyond the SYDP, and is supported by all Major Commands. Management Option: or Action

Title of Program: Aircraft Shelter Sensor Systems

Provides a suite of BISS and NDI equipment to protect priority aircraft in closed shelters. Project is well underway in USAFE and PACAF. Management Option: or Action

Title of Program: Total Requirement installations

On-going program providing all sensor equipment required for a weapon system or specific need, i.e. all sensors and C3I for the B-2. Supported by MAJCOMs. Management Option: or Action

Title of Program: Interior Structure Security Systems

Continuing program to provide BISS or COTS/NDI interior sensors for Maintenance and Inspection Buildings, Igloos, and Integrated Maintenance Facilities. Supported by MAJCOMs. Management Option: or Action

Title of Program:

Decentralized Funding Objectives (formerly V)

Management Option: or Action

On-going program which allows MAJCOMs to accelerate requirements by providing funding outside centrally funded program, while using the central program to provide logistics, planing and engineering. An example is the USAFE initiative to protect Precision guided munitions more quickly by funding installations.

Title of Program: Dispersed Integrated Security System

On-going program to acquire BISS and COTS/NDI equipment for portable and relocateable applications. Supported by MAJCOMS. Management Option: or Action

## AIR FORCE DOD PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION Issue Management Options/Actions

Title of Program: Automated Entry Control System

The ESE portion of the BISS AECS R&D effort. Presently supported by several MAJCOMs, with expected POM funding action at first opportunity (FY 94 POM) Management Option: or Action

#### AIR FORCE DOD PHYSICAL SECURITY MASTER PLAN EQUIPHENT IMPLEMENTATION Issue Management Options/Actions

Title of Program: Annunciator Installations

Nanagement Option: On-going proor Action

On-going program to replace SPCDS and to provide needed new annunciator requirements. This program purchases ARMY ICIDS annunciators and installs them at USAF sites.

Tetals

Frogram Name: ADV ENTRY CONTROL SYSTEM	
Service Priority	1.20
Strategic Value of Asset	1.00
Threat Level	1.00
Asset Vulnerability	1.00
Joint Service Operational Requirement	Pending Approval
Single Service Operational Requirement	Approved
Tentative Operational Requirement	Approved
Acquisition Commitment	ONE dervice only
Item Category	Nondevelopmental Item
Previous RDT&E	Continue
DOD 6.3/6.4 Costs to Date Funds Requested this FY Follow-on RDT&E Costs	2470 2615 3628
Total	8713
Acquisition Quantity	34
Unit Acquisition Cost	858000
Years to Complete RDT&E	3.00
Probability of Success	99.00
Technical Risk	0.01
DOD Value: 77.93	
FY 6.3 Funding 6.4 Funding 1990 1991 1992 1993	Total

Program Name: THERMAL MAGER SYSTEMS	
Service Priority	1,40
Strategic Value of Asset	1.30
Threat Level	1.30
Asset Vulnerability	1,30
Joint Service Operational Requirement	Fending Approval
Single Service Operational Requirement	Fending Approval
Tertative Operational Requirement	Fending Approval
Activisition Commitment	TWO or more services
Item Category	Nondevelopmental Item
Previous RDT&E	Continue
DOD 6.3/6.4 Costs to Date Funds Requested this FY Follow-on RDT&E Costs	0 516 14651
Total	15167
Acquisition Quantity	36
Unit Acquisition Cost	110000
Years to Complete FDT&E	8.00
Probability of Success	80.00
Technical Risk	20.00
DOD Value: 66.43	
FY 6.3 Funding 6.4 Funding 1990 1991 1992 1993	Total

Program Name: DISPERSED INTEG SEC SYS	
Service Friority	1.30
Strategic Value of Asset	1.30
Threat Level	1.00
Asset Vulnerability	1.00
Joint Service Operational Requirement	Pending Approval
Single Service Operational Requirement	Fending Approval
Tentative Operational Requirement	Pending Approval
Acquisition Commitment	ONE service only
Item Category	Nondevelopmental Item
Previous RDT&E	Continue
DOD 6.3/6.4 Costs to Date Funds Requested this FY Follow-on RDT&E Costs	275 1759 9272
Total	11306
Acquisition Quantity	992
Unit Acquisition Cost	15000
Years to Complete RDT&E	6,00
Probability of Success	90.00
Technical Risk	10.00
DOD Value: 65.55	
FY 6 3 Funding 6.4 Funding 1990 0 1991 1992 1993 1994	Total

Program Name: ELECTRONIC ENGAGEMENT SYS	
Service Priority	2.00
Strategic Value of Asset	1.80
Threat Level	1,80
Asset Vulnemability	2.00
Joint Service Operational Requirement	Pending Approval
Single Service Operational Requirement	Fending Approval
Tentative Operational Requirement	Fending Approval
Acquisition Commitment	TWO or more services
Item Category	Nondevelopmental Item
Previous RDT&E	Continue
DOD 6.3/6.4 Cocts to Date Funds Requested this FY Follow-on RDT&E Costs	0 0 646
Total	646
Acquisition Quantity	688
Unit Acquisition Cost	5000
Years to Complete RDT&E	1.00
Probability of Success	99,00
Technical Risk	1.00
POD Value: 63.87	
FY 6.3 Funding 6.4 Funding 1990 1991 1992 1993 1994	Tetal

whi.

Totals

- page 4 -

Program Name: STAND & SMALL ANNUN	
Service Priority	1,00
Strategic Value of Asset	1.00
Threat Level	2.00
Asset Vulnerability	1.00
Joint Service Operational Requirement	Not Applicable
Single Service Operational Requirement	Approved
Tentative Operational Requirement	Approved
Acquisition Commitment	ONE service only
Item Category	Developmental Item
Previous RPT&E	Continue
DOD 6.3/6.4 Costs to Date Funds Requested this FY Follow-on RDT&E Costs	2410 910 0
Total	3320
Acquisition Quantity	9
Unit Acquisition Cost	257000
Years to Complete RDT&F	1.00
Probability of Success	100.00
Technical Resk	0.00
DOD Value: 03.62	
FY 6.3 Funding 6.4 Funding 1990 1991 1992 1993 1994	Total

Program Name: AIRBORNE DETECTION SYS	
Service Friority	2.20
Strategic Value of Asset	1.30
Threat Level	1.30
Asset Vulnerability	1.30
Joint Service Operational Requirement	Fending Approval
Single Service Operationa' Requirement	Approved
Tentative Operational Requirement	Approved
Acquisition Commitment	ONE service only
Item Category	Developmental Item
Frevious RDT&E	New
DOD 6.3/6.4 Costs to Date Funds Requested this FY Follow-on RDT&E Costs	0 0 7114
Total	7114
Acquisition Quantity	0
Unit Acquisition Cost	
Years to Complete RDT&E	4.00
Probability of Success	85.00
Technical Risk	15.00
POD Value:	
FY 6.3 Funding 6.4 Funding 1990 1991 1992 1993	Total

. where is

Program	Name: AIRCRAFT EM	BEDDED SEC SYS	
Service	Priority		3.00
Strategi	c Value of Asset	٠	2.00
Threat L	evel		1.90
Asset Vu	lnerability		1.80
Joint Se	rvice Operational	Requirement	Pending Approval
Single S	ervice Operational	l Requirement	Fending Approval.
Tentativ	e Operational Requ	urement	Pending Approval
Acquisit	ion Commitment		NONE
Item Cat	egony		Nondevelopmental Item
Previous	RUT&E		New
Funds Re	6.4 Cost to Date quested his FY n RDT&E Costs		0 0 6048
Total	***************************************	• • • • • • • • • • • • • • • •	6048
Acquisit	ior. Quan'ity		
Unit Acq	uidition Cost		
Years to	Complete RDT&E		4.00
Probabil	ity of Frecess		90.00
Technica	l Bisk		10.00
DOD Valu	e:		
FY	G.3 Funding	6.4 Funding	Total
1990 1991 1992 1993 1994			

Program Name: BASE AND INSTALLATION ECS	
Service Priority	2.90
Strategic Value of Asset	2.00
Threat Level	2,50
Asset Vulnerability	2.50
Joint Service Operational Requirement	Tending Approval
Single Service Operational Requirement	Fending Approval
Tentative Operational Requirement	Fending Approval
Acquisition Commutment	ONE service only
Item Category	Nondevelopmental Item
Previous RDT&E	Naw
DOD 6.3/6.4 Costs to Date Funds Requested this FY Follow-on RDT&E Costs	0 0 841
Total	841
Acquisition Quantity	
Unit Acquisition Cost	
Years to Complete RDT&E	2.00
Probability of Success	50.00
Technical Kisk	80,00
DOD Value:	
FY 6.3 Funding 6.4 Funding 1990 1991 1992 1993	Total

- pase 8 -

Attachment G

DNA Presentation Charts

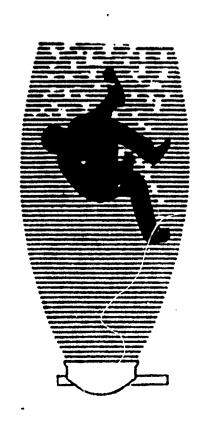
#### FY-1992 PRIORITIZATION LIST

16 April 1991

PRIORITY	PROJECT	BENEFITS	PUNDS	(\$K)
	JOINT/MULTI-SERVICE/CONTINUI	NG SERVICE PROGRAMS		
1	ACTIVE DENIAL	AP/A/N/MC	1,623	
2	PASSIVE MILLIMETER WAVE	N/A/AF/MC	556	
3	SWIMMER IDENTIFICATION	N	556	
4	SONIC DENIAL	A/AF/N	356	
ŗ.	WATERSIDE LIGHTWEIGHT BARRIER	N	266	
6	SHALLOW WATER INTRUSION DETECTION SYSTEM	N	540	
	SERVICE NEW S	<u> FARTS</u>		
7	REMOTE SENSOR TEST DEVICE	A/AF/N/MC	100	
8	IDAS/FLIGHT LINE SECURITY	AF/A/N/MC	260	
9	NON-HARDWIRE/NON-RF DATA LINK	A/AF/N	170	
10	ADVANCED THERMAL IMAGERY/ FOCAL PLANE ARRAY	AF/N/A	500	
11	THERMAL IMAGERY/CCTV REPLACEMENT	AF/N/A	300	
12	IDS FROM MOVING PLATFORM	A/AF	65Ø	
13	LASER DENIAL	AF/A	630	
14	MODELING FOR PERSONNEL VERIFICATION	AF/A	200	
TOTA	L 6.2 FUNDS PROGRAMMED		6,707	_

### **ACTIVE DENIAL**

CONCEPT



#### DESCRIPTION

- Air Force (Statement of Operational need SAC 025-87)
- Develop technology for non-lethal, delay/denial systems
- New start in FY89 four year developmental effort
- Uses advanced microwave technologies
- Will be used at storage sites/mobile missile systems.

#### STRATE GY/188UES

FY89	FY90	FY80	FY91	FY92	FY93
Concepts Development	Finalize JSOR by Services	Initiate evaluation/ Proof-of-Principle testing	Develop desired denial levels	Develop hardware	Transition to advanced

#### EUNDING (& M)

EY9
<b>EY92</b>
<b>EY91</b>
<b>EY90</b>
<b>EY89</b>

1.0	
1.66	
1.98	
1.166	(8.8)
=	8
6.2	

1.6	
ń	
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1.09

# PASSIVE MILLIMETER WAVE SENSOR (PMWS)

## CONCERT

## BPONSOR, OP-09N

REQUIREMENT: SMALL, DURABLE, AND INEXPENSIVE ALTERNATE TO EXISTING PABBIVE SECURITY SYSTEMS PERFORMED APPLIED RESEARCH LABORATORIES, UNIV. OF TEXAS

DESCRIPTION: DEVELOP A DETECTOR THAT WOULD
BE SMALL (2" X 2" X 0.1") AND COULD BE EASILY
CONCEALED! PROTECTED IN A HARSH ENVIRON JENT
DELIVERABLES! SMALL, INEXPENSIVE, PASSIVE
MILLIMETER WAVE SENSOR FOR SHIPBOARD
OR SHORE STATION USE.

EX 80 EX 81 E

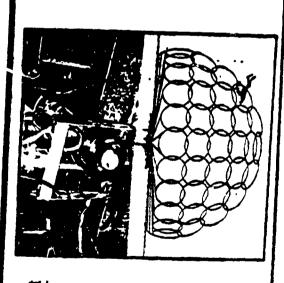
SEOK SSOOK SSOOK

#### MAKERY

- FY 80 DETERMINE FEASIBILITY OF PMWS BEING MADE INEXPENSIVELY
- FY 91 DETERMINE ANTENNA BTRUCTURE DETERMINE CHARACTERISTICS OF TARGETS TO MAKE PROPER CHOICE OF RECEIVER PARAMETERS
  - DETERMINE POBSIBLE CONFIGURATION COMPATIBLE WITH EXISTING FABRICATION TECHNOLOGY
    - DETERMINE PERFORMANCE CHARACTER-18TICS AND PABRICATION PROCEDURES - TRANSITION TO 6.8 AFTER PROOF-OF-

# Swimmer Identification System (SIDS)

Concept



#### Description

Sponsor: OP-09N

swimmer detection and identification system Requirement: Autonomous afarm sonar

Center/Hawaii Lab, Applied Research Lab/UT, Performer: Naval Ocean Systems Applied Physics Lab/UW

Description: Autonomous alarm system which will alert shipboard and sta. on personnel of the approach of surface and subsurface intruders

Deliverables: Swimmer identification technology.

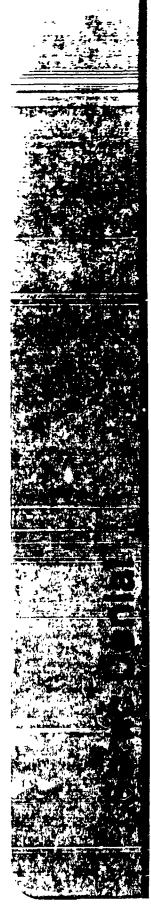
880K FY91 FY90 755K FY89 **486K** Funding FY88 210K

FY92 290K

#### Strategy/Issues

- FY88 Identified design requirements
- · Initial mechanical/electrical work
- Documented swimmer warfare trends FY89 - Established 3" lens capabilities
  - Identified feature characteristics
- Identified motional parameters of human swimmers
  - Develop signal processing algorithms
    - FY90 Conduct data collection signatures
      - Analyze signatures
- Initiate library of characteristics

## Unclassified



sound as a non-lethal delay or denial system which could be used by the Army and, possibly, Requested: Investigate the use of non-audible other Services.

## Accomplishments:

This was a new start in FY-91, recently funded

### **Future Events:**

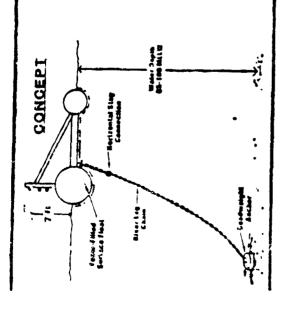
- Determine the effects of non-audible sound on numans
- Develop a proof-of-concept delay/denial system
- Demonstrate the proof-of-concept delay denial system and transfer the project to the Army. for 6.3 Advanced Engineering

# WATERSIDE LIGHTWEIGHT BARRIER

DESCRIPTION

N60-40

**BPONSOR**.



### **BIBATEQY/ISSUES**

- COMMERICIALLY AVAILABLE BARRIER FY 88-
- MATERIAL B PERFORMANCE INFORMATION DEVELOPED DETAILS OF SELECTED BARRIER CONCEPTS AND COMPLE MATERIALS WERE INVESTIGATED. 98 FY
  - SELECT AND BEGIN FABRICATION OF FOR SELECTED CONCEPTS. PROTOTYPE BARRIER. FY 80-
- AND CONDUCT PROOF-OF-CONCEPT LESS COMPLETE BARRIER FABRICATION ANCILLARY EQUIPMENT. FY 91-
  - DEVELOP GATES, MOORING, AND CONNECTORS. FY 92-

#### REQUILEMENT: LIGHTWEIGHT BARRIER THAT WILL STOP OR DELAY A HIGH-SPEED EXPLOSIVE-LADEN WILL STOP OR RIGNIFICANTLY DELAY A HIGH-SPEED EXPLOSIVE-LADEN BOAT. IT IS DESIGNED TO INTEGRATE INTO THE WATERSIDE SECURITY A LIGHTWEIGHT BARRIER THAT PERFORMER: NAVAL CIVIL ENGINEERING LAB

BYSTEM

DESCRIPTION:

#### EUNDING

- 92 FY 91 FY 90 FY 88 FY 88
- 200K 180K 330K 264K 160K

## SHALLOW WATER INTRUSION DETECTION SYSTEM (SWIDS)

#### CONCEPT



#### DESCRIPTION

Neo-90 SCENOGE

REQUIREMENT: Detect waterborne intruders in chalkar-waterways that eurround proteoted assets.

PEREORMER: Navai Ocean Systems Center, San Diego

DEBCRIPTION: Operational capability of a endifore waiter intruder defection sensor system for integration kits the Waterside Beourity System (WBS)

DELLYEBABLES: Trained eystem for W88

#### BIRATECY/198UES

- #Y 81 Beneor selection and evaluation
- Acquire entimals and support equipment Commence basic training
- FY 82 Complete open water training
- Complete pier training
  Complete shallow water training

Establish Interface requirements with WBB

- FY 83 Complete advanced training
  - System integration and evaluation Proof-of-principle demonstration
    - Deliver trained eyetem to Navy

#### **EUNDANG**

EY B3
EY 92
FY 81

510K 470K 646K

## REMOTE SENSOR TEST DEVICE

## **CUSTOMER/FUNDING**

USAF - Security Police USA - ARDEC NAVY - Naval Invest Service Marines - NIS

FY 92 Funds - \$125K

#### ISSUE

Through a very time consuming process, sensors are checked approximately once a month to ensure it is effective. This leaves large periods of time when sensors may be inoperative. A remotely operated test device would allow sensors to be validated at any time.

#### PRODUCT

A "bread board" device capable of remotely testing any sensor; microwave, infrared or ultrasonic, etc. to ensure it is working properly.

- Ensures intruders will be detected.
- Reduces the liability of unreliable security sensors.
- Allows security forces to take compensatory measures for defective sensor systems.

## IDAS/FLIGHT LINE SECURITY

## CUSTOMER/FUNDING

USAF - SAC Army Navy Marine Corp FY 92 Funds - \$200K

#### ISSUE

Most security systems require expensive maintenance. Many systems can not be relocated. Goal is to find a relocatable cheap alternative.

#### **PRODUCT**

#### IMPACTS

A cost effective, wireless area sensor.

- Save costs in maintenance.
  - Improved reliability,
    - Deployable.

## NON-HARDWIRE/NON-RF DATA LINK

### **CUSTOMER/FUNDING**

USAF - Security Police Army - Program Mgt for Phy Sec Eq Navy - Naval Inv Service Cmd

FY 92 Funds - \$170K

#### ISSUE

- Long logistic "tail" needed to support the hardwire connections for sensors/ systems.
- Frequency assignment virtually impossible or crowded.

#### PRODUCT

Develop a method of sending sensor data to a control center without using hardwire cable or radio frequency. Microwave or laser technologies will be examined for feasibility.

- Reduce logistic support,
- Increase amount of data transmitted, number of users.

## FOCAL PLANE ARRAY SENSOR

## **CUSTOMER/FUNDING**

USAF - Security Police Army - Program Mgr for Phy Sec Eq Navy - Naval Inv Service Cmd

FY 92 Funds - \$500K

#### ISSUE

Insufficient security force reaction time to intrusions due to limited range of detection sensors and systems

#### **PRODUCT**

Develop and demonstrate a long range detection sensor using large arrays of infrared image pixels to provide "television quality" imagery in real time for assessment of intruders.

- Detection and assessment of intruders before they reach the protected area.
- Allows security forces time to interdict, delay, and deny hostile forces.

## **DUAL PURPOSE THERMAL IMAGER**

### **CUSTOMER/FUNDING**

USAF - Security Police Army - Program Mgr for Phy Sec Eq Navy - Naval Inv Service Cmd

FY 92 Funds - \$300K

#### ISSUE

Insufficient security force reaction time to intrusions due to limited range of detection sensors and systems.

#### **PRODUCT**

Develop and demonstrate a single, common, high-resolution, high-scan rate thermal image sensor that will detect at long range and present "snap frame" scene imagery in near real time for automatic target assessment.

- Detection and assessment of intruders before they reach the protected area.
- Allows security forces time to interdict, delay, and deny hostile forces.
- May eliminate the need for additional costly sensor systems.

## IDS FROM MOVING PLATFORM

### **CUSTOMER/FUNDING**

ARMY - Program Mgr - Phy Sec Eq

FY 92 Funds - \$650K

#### ISSUE

Most sensors are static and limited in their field of detection.

#### PRODUCT

Develop a mobile sensor system capable of detection while continually in motion.

- Increases the range and capability of detection systems.
- Anticipated uses include weapon storage areas, open storage areas, warehouse storage areas.
- Possible reduction in security forces through the use of robotic devices.
- Possible spin-off technology for the battlefield.
- Reduces human error.

### LASER DENIAL

### **CUSTOMER/FUNDING**

USAF - Security Police ARMY - ARDEC

FY 92 Funds - \$650K

#### ISSUE

Response force options short of deadly force is limited in the protection of secure areas.

#### PRODUCT

Eye safe, hand held, portable breadboard laser system designed to delay and deny access to secure areas.

- Deters intrusions.
- Delays or denies access to critical resources without severe bodily harm.
- Impairs optical systems used by intruders.
- Provides better control as a well-focused point system as opposed to broad area coverage.
- May be cheaper than costly microwave systems.

# MODELING FOR PERSONNEL VERIFICATION

### **CUSTOMER/FUNDING**

USAF Army FY 92 Funds - \$200K

#### ISSUE

Many previous security requirements have been established with little or no validation. Given the current effort to reduce defense spending. Tools need to be developed which clearly measure security effectiveness.

#### PRODUCT

Develop a security model which can measure security effectiveness, cost/benefit analysis and other trade-offs.

- Provides security planners with a method to identify where security manpower cuts should be taken.
- Provides a recommendation on the proper mix of manpower and equipment,

## ADVERSARY TESTING



#### DESCRIPTION

- SPONSORED BY DNA
- OBJECTIVES:
- TO PROVIDE CREDIBLE ADVERSARY
  TO TEST NUCLEAR SECURITY CONCEPTS
- ADVERSARY TEAMS PROVIDED BY 1ST SOCOM
- PROVIDES MULTI-SERVICE/AGENCY TEST SUPPORT
- PROVIDES KNOWLEDGEABLE INPUT AT PHYSICAL SECURITY CONFERENCES

#### FUNDING

TEST SCHEDULE

ACTION

**FREB** 

NOV 69

SOC DOOR TESTS

SOC TESTS

PM-NUC

MAY 90

**8** 3

UGS CONCEPTS

PM-NCC

**KOER** 

MASS TESTS

PM-NUC

MAGAZINE DOOR TESTS JUL 90

EY92
EY 91
EY 90
EY 89
EY 88

<b>6</b> 0
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Ş
<b>40</b> 4
\$20K
6.2

## PHYSICAL SECURITY EQUIPMENT

#### CHART A

### DNA RDTEE PROGRAMS

#### (\$ IN THOUSANDS)

PRO	PROGRAMS	FY91	FY92	FY92 FY93 FY94	<b>PY94</b>		<b>PY96</b>	PY95 PY96 PY97 PY98	FY98
Η.	Security Concepts Development	2361	3287	2012	2053	2335	2470	2460	2460
2.	Advanced Sensor Technology	485	1550	1585	1620	976	560	673	600
	Mobile Platforms	250	179	425	450			•	
4	Secure Storage and Transport				450	260	935	500	200
5.	Waterside Security	2315	1700	545	505	1246	1152	1367	1440
PRC	PROGRAM TOTAL	5411	6787	6787 5837	5883	5111	5117	5111 5117 5066 5606	5600

## PHYSICAL SECURITY EQUIPMENT

CHART B

## DNA SECURITY CONCEPTS DEVELOPMENT RDIGE PROGRAM

#### (\$ IN THOUSANDS)

PROJECTS	FY91	FY92	FY93	FY94	PY95	PY96	PY97	PY98
1. Active Denial	1876	1810	1327	1093				
2. Sonic Denial	485	544						
3. Laser Denial		933	745	96	1220	881	1010	1460
1					360	186		
5. Threat Determination Model					460	336		
6. Advanced Security Lighting					295			
7. PS Modeling of Complex Bldg Int						261	400	
8. Artificial Retinas						361	250	
9. Moving Veh/Veh Barrier Model						211		
<pre>10. Blast Loads on Non-Planar Bldg Elements</pre>						234		
11. New Concepts Development	1 1 1	i 1 1 1	 	\$   	) 	1 1 3 1	868	1888
GRAND TOTAL	2361	3287	2012	2053	2335	2478	2468	2468

DNA

### DoD Physical Security Master Plan Equipment Implementation

	A # Required	B # Implemented	C ** Not implemented	D # At leaue
MANAGEMENT OPTIONS	<u>6</u>	10	0	0
RDT&E Programs				
Procurement Programs				
SUMMARY ACTIONS	16	100	G	0
TOTAL	5			

Estimated Completion Dates (of Column C)

0	0		V - Q
50% Completion Date	75% Completion Date	100% Completion Date	Note: Columns B + C + D - A

## DOD PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION COMPLETELY IMPLEMENTED ITEMS

SHORT TITLE	OPTION #	PAGE	REMARKS	DATE
Setence Intelligence Threat Data System (DITDS)	<b>6</b> .1	C-6-1	Transitioned to DIA	0000
2. Recovery Technology	6.2	C-6-1	Transitioned to ATSD (AE)	-
8. Tactical Engagement Simulation System (TESS)	ණ. ල	0-9 0-0	Transitioned to USAF	0 0 1 1 1 1 1 1
4. Insider Vulnerabilities	4.0	C-6-2	Transitioned to ATSD (AE)	00 430
6. Adversary Testing	9.	C-9-2	Multi- Service use	00 4110
6. Maintenance and Assembly (M&A) Building Vulnerability	0.0	O	Transitioned to DA	0 0 1 1 0
7. Personnel Reliability Program (PRP) Study	6.7	0 6	• Eliminated	٧ <b>٧</b>
8. Security Response Capability	<b>6</b>	C-6-4	• Ellminated	<b>4</b>
9. Area Illuminated Leaky Cable	6.0	4-8-0	Transitioned to USAF	DEC 89
(AILCS) 10. Tactical Intrueion Detection System (TIDS)	6.10	C-6-6 MONEY FROM	C-6-6 Transitioned to USAF FY 91 Money from Eliminated Programs Applied to Active Denial	FY 91 D ACTIVE DENIAL

DOD PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION COMPLETELY IMPLEMENTED ITEMS

SHORT TITLE	OPTION #	PAGE	REMARKS	DATE
11. TIDS Algorithm Verification	6.11	9-9-0	Combined with TIDS for Transition to USAF	F
12. Mobile Intrusion Detection and Assessment System (MIDAS)	6.12	9-9-0	Continuing	
18. Extended Security Zone	8.18	6-6-5	· Eliminated	<b>4</b>
14. Tactical/Field Security	6.14	9-9-0	• Eliminated	<b>4</b>
16. Smart Sensors	8.16	0-9-0	• Eliminated	<b>4</b>
16. Exterior Active Protection System (EAPS)	6	<b>9</b> -0-0	Continuing as Active Denial program	
17. New Sensor Technology	6.17	C-6-7	Starte FY 04	¥
18. Robotics for Physical Security	6. 6.	C-8-7	FY 91 monies will be extended	MID FY 92
19. Underwater Rebotice	6.19	C-6-7	Transition to Navy	FY 91
20. Hardened Warhead Containers	6.20	C-6-7	C-6-7 • Eliminated • Money from eliminated programs applied to Active Denial	Y 7 1 1 0 0

#### DNA

## Dod PHYSICAL SECURITY MASTER PLAN EQUIPMENT IMPLEMENTATION

## COMPLETELY IMPLEMENTED ITEMS

6.21 C-6-8 6.22 C-6-8 6.24 C-6-8 6.24 C-6-9 6.26 C-6-9 6.27 C-6-9 6.27 C-6-9 6.27 C-6-9 6.28 C-6-10 6.29 C-6-10 6.29 C-6-10 6.29 C-6-10 6.29 C-6-10	SHORT TITLE OP	OPTION #	PAGE	OPTION # PAGE REMARKS	DATE
6.22 C-6-8 6.24 C-6-8 6.24 C-6-9 6.25 C-6-9 6.26 C-6-9 6.27 C-6-9 7LB) 6.29 C-6-10 6.80 C-6-10	21. Underground Storage	6.21	0-0-O	Transitioned to DA	00 00
6.28 C-6-8 6.24 C-6-9 6.26 C-6-9 6.26 C-6-9 6.27 C-6-9 6.28 C-6-10 6.29 C-6-10 6.30 C-6-10	22. Maintenance and Assembly Secure Storage	6. 64	Q-9-9	Transitioned to DA	<b>6</b>
6.24 C-6-9 6.25 C-6-9 6.26 C-6-9 6.27 C-6-9 6.28 C-6-10 6.29 C-6-10 6.30 C-6-10	28. Sticky Foam	6. 2. 3.	0 0	Transitioned to DA	80 de8
6.26 C-6-9 6.26 C-6-9 81D8) 6.28 C-6-10 7LB) 6.29 C-6-10	24. Storage and Movement Vulnerabilities	6.24	0-9-D	• Eliminated	<b>¥</b>
6.26 C-6-9 81DS) 6.28 C-6-10 7LB) 6.29 C-6-10 5.80 C-6-10	26. Explosive Entry Data	6.26	G-9-0	Transitioned to AT8D(AE)	3ep 90
6.27 C-6-9 81D8) 6.28 C-6-10 7LB) 6.29 C-6-10 6.80 C-6-10	26. Fence Testing	6.20	C-8-9	Completed	3ep 80
6.26 C-6-10 (LB) 6.29 C-6-10 6.80 C-6-10	27. Advanced Storage Technology	6.27	G-9-D	• Eliminated	<b>4</b>
6.80 G-6-10			C-6-10	Continuing	
6.80 G-6-10	29. Waterside Lightweight Barrier (WLB)		C-6-10	Continuing	
	80. Movable Broadband Sonar (MBS)	6.80	C-6-10	FY 91 Funds extended and MBS	80 M
01-0-0 10-0	81. Shallow Water Intrusion Detection System (SWIDS)	6.81	C-6-10	Continuing	ŀ

Attachment H

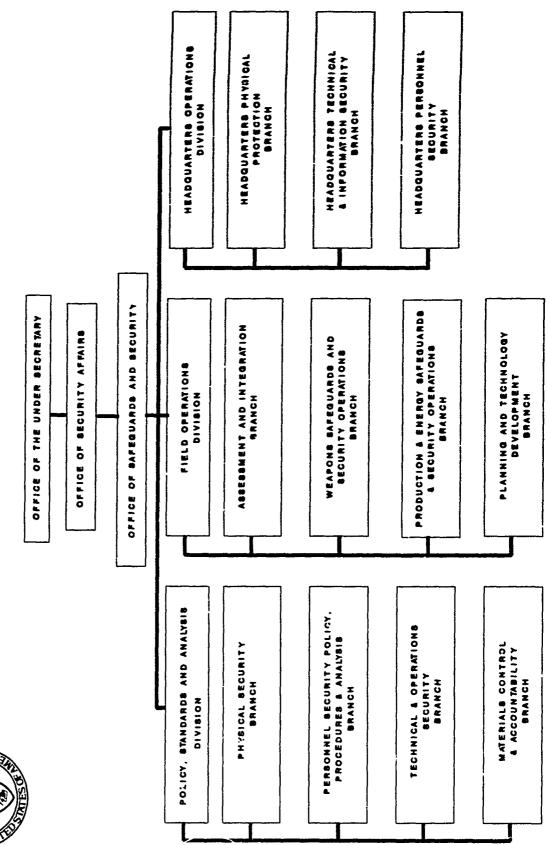
DOE Presentation Charts



# PLANNING AND TECHNOLOGY DEVELOPMENT BRANCH

## PROGRAM BRIEFING

## TECHNOLOGY DEVELOPMENT PROGRAM MANAGING THE OSS







### RESOURCE PROFILE

POSITION	INCUMBENT	RESPONSIBILITIES
BRANCH CHIEF	SMITH	PROGRAM MANAGEMENT MATERIAL CONTROL MATERIAL ACCOUNTABILITY
GENERAL Engineer	POCRATSKY	PHYSICAL SECURITY SYSTEMS COMPUTER SECURITY
GENERAL Engineer	VACANT	
PROGRAM ANALYST	VACANT	
SECURITY	CHERRY	SYSTEMS INTEGRATION AND EVALUATION INFORMATION SECURITY PERSONNEL SECURITY

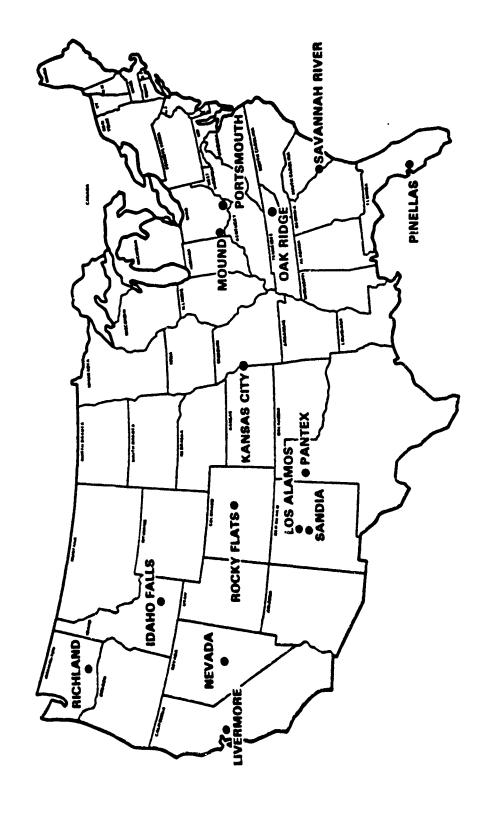


### MISSION

SAFEGUARDS AND SECURITY RESEARCH AND DEVELOPMENT EFFORTS ARE PROVIDE OVERSIGHT, PLANNING AND COORDINATION TO ENSURE THAT RESPONSIVE TO USER NEEDS AND POLICY OBJECTIVES.



### DOE NUCLEAR FACILITIES





### TYPICAL DOE FACILITIES REQUIRING PROTECTION

- PRODUCTION REACTORS & PROCESS FACILITIES
- MATERIAL HANDLING (GLOVE BOX) AND TRANSPORT
- SENSITIVE R&D FACILITIES
- WEAPONS TEST SITES
- WEAPONS COMPONENT FABRICATION FACILITIES
- WEAPONS ASSEMBLY FACILITIES



### **THREAT**

- HISTORICALLY OUTSIDER THREAT
- RECENT EMPHASIS INSIDER THREAT
- PASSIVE/ACTIVE
- RATIONAL/IRRATIONAL
- VIOLENT/NONVIOLENT
- OBJECTIVES AND METHODOLOGY DIVERSE
- SABOTAGE
- . THEFT OF SNM



### RESPONSIBILITIES

- € PROGRAM MANAGEMENT FOR ALL DOMESTIC DOE SAFEGUARDS SECURITY RESEARCH AND DEVELOPMENT
- R&D PROGRAM FLANNING, FORMULATION AND EXECUTION
- DVERSIGHT AND DIRECTION OF SPECIAL & UNIQUE R&D PROJECTS
- SUPPORT APPLICATION OF SAS SYSTEMS AND CONCEPTS TO FIELD
- IDENTIFICATION AND PRIORITIZATION OF FIELD NEEDS
- DEVELOPMENT OF SAFEGUARDS & SECURITY PLANNING DOCUMENTS
- \* TECHNOLOGY TRANSFER TO FIELD OFFICES AND INDUSTRY
- LIAISON WITH GOV'T AGENCIES, FACILITY OPERATORS, VENDORS CONTRACTORS



## RESEARCH AND DEVELOPMENT ACQUISITION PHASES

:	OPERATIONS A SUPPORT		FORT NOTATION	7	
00-00-0			TECH BUPPORT AND IMPLEMENTATION		KEY DECISION 4
\$0-00-QD	FULL SCALE DEVELOPMENT		DEMONSTRATION		
20-00-08	EMONSTRATIONAL PMENT		ENGINEERING DEVELOPMENT		TY KEY BION DECISION 8
0-40	CONCEPT AND DEMONSTRATIONAL DEVELOPMENT		ADWNCED DEVELOPMENT		Y KEY BION DECIBION
	NOLOGY BASE		TECHNOLOGY OR EXPLORATION DEVELOPMENT		KEY DECISION
GD-06-01	SCIENCE AND TECHNOL		APPLIED Research		
	BCIENC		BASIC		
BUDGET REPORTING CATEGORIES	STATUTORIAL	·	STATUTORIAL CATEGORY PHASES	-	



### RESEARCH AND DEVELOPMENT DISCIPLINES



### **KEY LABORATORIES**

DAK RIDGE  LAWRENCE LIVERMORE  COMPUTER SECURITY; MATERIAL ACCOUNTABILITY  MATERIAL ACCOUNTABILITY	SANDIA PHYSICAL PROTECTION (ALL ASPECTS)	LOS ALAMOS MATERIAL CONTROL & ACCOUNTABILITY; COMPUTER SECURITY	LABORATORY CONCENTRATION OF SUPPORT TO OSS	·	NE NE
--	--	---	--	---	-------

MATERIAL ACCOUNTABILITY

MATERIAL CONTROL & ACCOUNTABILITY; SYSTEMS INT. & TRAINING

BROOKHAVEN

INTEGRATED SYSTEMS OPERATIONAL TEST & EVALUATION

IDAHO NAT'L ENGINEERING | P

ARGONNE

MOUND

PHYSICAL SECURITY (EXPLOSIVES DETECTION)

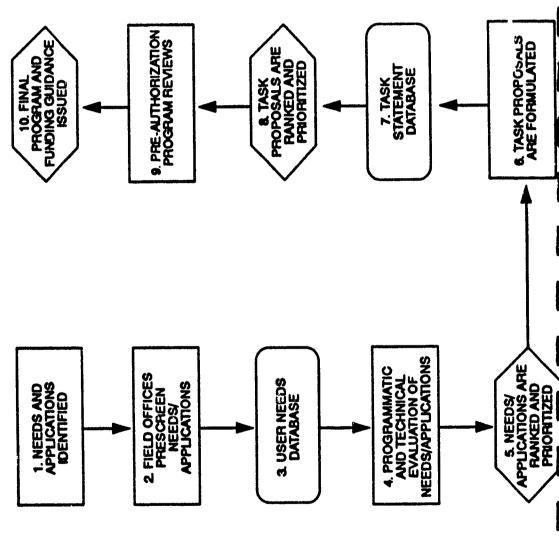


### CENTER OF EXCELLENCE CONCEPT

- SPECIFIC LABORATORIES CONCENTRATE SPECIFIC DISCIPLINES AT
- MAINTAINS FOUNDATION OF TECHNOLOGY RESOURCES
- REDUCES COMPETITION BETWEEN LABORATORIES
- INDUSTRY INTERFACES THROUGH LABORATORIES

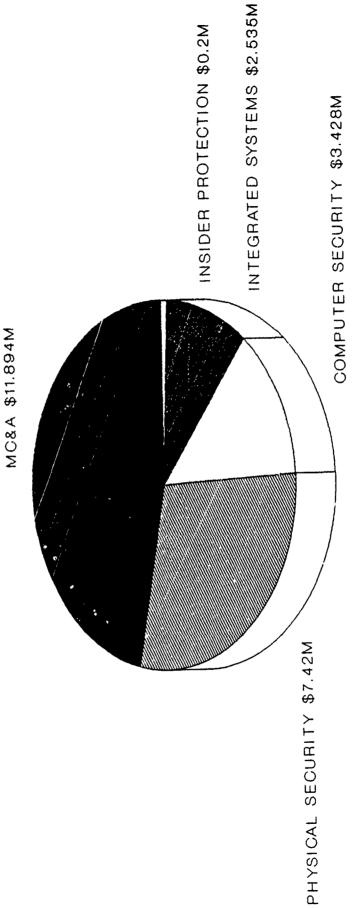


### TASK EVALUATION PROCESS





### LEVEL OF EFFORT WITHIN S&S DISCIPLINES

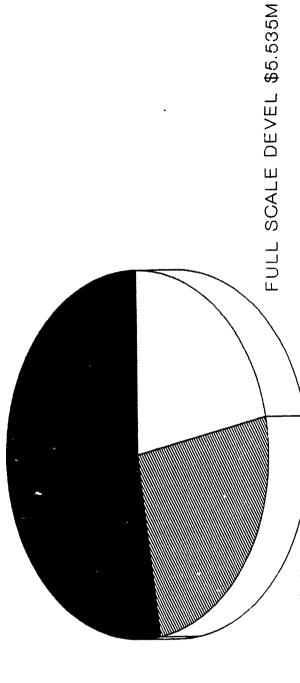


INSIDER PROTECTION \$0.2M



### LEVEL OF EFFORT WITHIN R&D PHASES

SCIENCE & TECH BASE \$13.323M



CONCEPT & DEMO DEVEL \$6.509M

### INT SYST SUPT MAT ACCNT MAT CONTROL COMP SECURITY PHYS SECURITY RESOURCE DISTRIBUTION 2M 3M M **∑**0 **4 2**W

F

INEL MMES

ANL

ORNL SNL

LLNL

2

BNL

LANL AMES



### **ADDRESS**

OFFICE OF SAFEGUARDS AND SECURITY

CHIEF, PLANNING AND TECHNOLOGY DEVELOPMENT BRANCH

AT TN: SA-134

U.S. DEPARTMENT OF ENERGY

WASHINGTON, DC 20585

TELEPHONE: (301) 353-2546

(FTS) 233-2545

FAX: (301) 353-4164

Attachment I Action Items

### **ACTION ITEMS**

### **ACTION AGENCY**

(Ashore) and Nuclear Weapons (Afloat). Suspense: Next PSEAG Executive Session Provide unit cost for magazine security system for nuclear weapons afloat and program element code for procurement for both the security of Nuclear Weapons in August or September 1991. 3. Take the appropriate action to initiate the requirement process for an airborne detection capability. Suspense: Next PSEAG Annual Review in May 1992.

Report the status of the DISS JSOR. Suspense: Next PSEAG Executive Session. Report the amount of RDT&E funding for active denial by year and identify the source. Suspense: Next PSEAG Executive Session. s.

6. Revalidate SAC's requirement for active denial and determine if SAC is willing to provide funding. If not, provide a revised funding matrix. Suspense: Next PSEAG Executive Session.

Sessions. An initial report is due at the August/September 1991 Executive Session. available in house expertise) for the development of Government specifications for 7. The SEIWG will provide periodic updates on their support efforts (using PSE. Status of support activities will be reported at future PSEAG Executive

February 1991 PSÉAG Executive Session). Suspense: Next PSEAG Executive Add Denial Systems to the Joint Requirements List (carryover item from 27

Navy

Navy

Air Force

Air Force

Air Force

Air Force

SEIWG

Chairman

Air Force